

NACOmatic

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CA Min Alt#2	-	5	HAF	-	252	028	-	1052
CA Min Alt#3	-	8	HGT	-	275	037	-	596
CA Min Rdr#2	-	11	HHR	-	258	041	-	1058
CA Min Rdr#3	-	12	HJO	-	256	060	-	133
CA Min TO#2	-	16	HMT	-	271	069	-	652
CA Min TO#3	-	29	HWD	-	261	088	-	686
102	-	291	IPL	-	278	OAK	-	524
103	-	321	IYK	-	279	OAR	-	443
AAT	-	42	IZA	-	979	OKB	-	569
ACV	-	48	JAQ	-	282	ONT	-	574
AHC	-	272	L08	-	84	OVE	-	597
AJO	-	147	L18	-	211	OXR	-	609
APC	-	511	L35	-	73	PAO	-	644
APV	-	45	L45	-	69	PMD	-	638
AUN	-	56	L67	-	675	POC	-	284
AVX	-	57	L71	-	104	PRB	-	649
BAB	-	449	LAX	-	355	PSP	-	617
BFL	-	59	LGB	-	336	PTV	-	655
BIH	-	75	LHM	-	313	PVF	-	654
BLH	-	81	LPC	-	323	RAL	-	688
BUR	-	90	LSN	-	435	RBL	-	662
BWC	-	87	LVK	-	316	RDD	-	666
C83	-	103	MAE	-	439	REI	-	674
CCB	-	1024	MCC	-	712	RHV	-	876
CCR	-	139	MCE	-	463	RIV	-	698
CEC	-	151	MER	-	468	RNM	-	658
CIC	-	119	MHR	-	718	SAC	-	724
CLR	-	107	MHV	-	477	SAN	-	804
CMA	-	108	MIT	-	982	SBA	-	944
CNO	-	126	MMH	-	442	SBD	-	756
CPU	-	755	MOD	-	473	SBP	-	912
CRQ	-	113	MPI	-	447	SCK	-	990
CVH	-	274	MRY	-	482	SDM	-	819
DAG	-	157	MYF	-	773	SEE	-	822
DLO	-	164	MYV	-	459	SFO	-	825
DVO	-	520	NFG	-	557	SIY	-	481
DWA	-	162	NID	-	679	SJC	-	881
E16	-	920	NJK	-	178	SLI	-	349
E45	-	250	NKX	-	776	SMF	-	728
EDU	-	161	NLC	-	297	SMO	-	961
EDW	-	166	NRS	-	277	SMX	-	954
EED	-	518	NSI	-	921	SNA	-	925
EKA	-	192	NTD	-	599	SNS	-	746
EMT	-	185	NUC	-	769	SQL	-	765
F34	-	212	NUQ	-	500	STS	-	969
F70	-	510	NXP	-	1012	SUU	-	195
FAT	-	216	NZY	-	791	SVE	-	996
FCH	-	235	002	-	71	TCY	-	1003
FOT	-	213	008	-	136	TLR	-	1011
FUL	-	240	022	-	134	TNP	-	1019
GOO	-	247	027	-	521	TOA	-	999

TRK	-	1008
TRM	-	627
TVL	-	983
UDD	-	633
UKI	-	1021
VBG	-	325
VCB	-	1026
VCV	-	1041
VIS	-	1045
VNY	-	1030
WHP	-	432
WJF	-	293
WLW	-	1056
WVI	-	1049

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ARCATA-EUREKA, CA

ARCATA ILS Rwy 32¹³
 ILS or LOC/DME Rwy 32²³
 RNAV (GPS) Rwy 1³⁴
 RNAV (GPS) Rwy 14³⁵
 RNAV (GPS) Rwy 32³⁵
 VOR/DME Rwy 14³

¹LOC, NA.

²ILS, 700-2.

³NA when local weather not available.

⁴Categories A, B, 1000-2½; Category C, 1000-2¾; Category D, 1000-3.

⁵Category D, 800-2¼.

BISHOP, CA

EASTERN SIERRA RGNL LDA/DME Rwy 16¹
 RNAV (GPS) Y Rwy 12²³
 RNAV (GPS) Z Rwy 12²⁴
 VOR or GPS-A, 3300-3⁵
 VOR/DME or GPS-B⁶

¹Categories A,B, 2300-2; Categories C,D, 2300-3.

²NA when local weather not available.

³Categories A, B 2500-2; Category C, 2500-3.

⁴Categories A, B, 2300-2; Category C, 2300-3.

⁵NA when Bishop altimeter setting not available.

⁶Categories A,B, 3200-2; Categories C,D, 3200-3.

CHICO, CA

CHICO MUNI VOR/DME Rwy 13L
 VOR/DME Rwy 31R

NA when control tower closed except for operators with approved weather reporting service.

CONCORD, CA

BUCHANAN FIELD LDA Rwy 19R
 RNAV (GPS) Rwy 19R¹

NA when control tower closed.

¹Categories A, B, 1000-2; Categories C,D, 1000-3.

NAME ALTERNATE MINIMUMS

CRESCENT CITY, CA

JACK MC NAMARA
 FIELD RNAV (GPS) Rwy 11
 NA when local weather not available.

DAVIS WOODLAND WINTERS, CA

YOLO COUNTY RNAV (GPS) Rwy 16
 RNAV (GPS) Rwy 34
 NA when local weather not available.

FRESNO, CA

FRESNO YOSEMITE
 INTL ILS or LOC/DME Rwy 29R
 LOC Rwy 11L
 VOR/DME or TACAN Rwy 11L
 VOR/DME or TACAN Rwy 29R
 Category E, 900-2¾.

HANFORD, CA

HANFORD MUNI RNAV (GPS) Rwy 32
 VOR-A
 NA when local weather not available.

HAYWARD, CA

HAYWARD
 EXECUTIVE LOC/DME Rwy 28L¹
 RNAV (GPS) Y Rwy 28L²
 RNAV (GPS) Z Rwy 28L²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Category C, 800-2¼; Category D, 800-2½.

HOLLISTER, CA

HOLLISTER MUNI RNAV (GPS) Rwy 31
 NA when local weather not available.

LIVERMORE, CA

LIVERMORE MUNI ILS Rwy 25R¹
 RNAV (GPS) Rwy 25R

Category D, 800-2¼.

¹NA when control tower closed.

NAME ALTERNATE MINIMUMS
MADERA, CA
MADERA MUNI RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30
NA when local weather not available.

MARYSVILLE, CA
YUBA COUNTY RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
NA when local weather not available.

MERCED, CA
CASTLE ILS or LOC/DME Rwy 31
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
VOR/DME Rwy 31
NA when local weather not available.

MERCED RGNL/MACREADY
FIELD ILS or LOC Rwy 30¹
LOC BC Rwy 12¹
RNAV (GPS) Rwy 30²
VOR Rwy 30²
¹NA when class E airspace not in effect.
²NA when local weather not available.

MODESTO, CA
MODESTO CITY-COUNTY-HARRY
SHAM FIELD ILS or LOC/DME Rwy 28R¹
RNAV (GPS) Rwy 28R
NA when local weather not available.
¹NA when control tower closed.

MONTEREY, CA
MONTEREY
PENINSULA ILS or LOC Rwy 10R¹²
LOC/DME Rwy 28L¹³
RNAV (GPS) Rwy 10L⁴
RNAV (GPS) Y Rwy 10R⁵
RNAV (GPS) Y Rwy 28L⁶
¹NA when control tower closed.
²ILS, Categories A,B,C, 800-2; Category D, 900-2½. LOC, Category D, 900-2½.
³Categories A,B, 1500-2, Categories C,D, 1500-3.
⁴Categories A,B, 1100-2.
⁵Category D 900-2½.
⁶Categories A, B, 1400-2; Category C, 1400-3.

NAME ALTERNATE MINIMUMS
NAPA, CA
NAPA COUNTY LOC Rwy 36L¹
RNAV (GPS) Y Rwy 36L²³
RNAV (GPS) Z Rwy 36L³⁴
VOR Rwy 6⁵

¹NA when control tower closed; Category D, 1200-3.
²Categories A, B, 1600-2; Categories C, D, 1600-3.
³NA when local weather not available.
⁴Category C, 900-2½; Category D, 1200-3.
⁵Category D, 1300-3.

PALO ALTO, CA
PALO ALTO AIRPORT OF
SANTA CLARA COUNTY VOR/DME Rwy 31
NA when control tower closed.

RED BLUFF, CA
RED BLUFF MUNI RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33
VOR Rwy 33
VOR/DME Rwy 15
NA when local weather not available.

REDDING, CA
REDDING MUNI ILS or LOC/DME Rwy 34¹³
LOC/DME BC Rwy 16²³
RNAV (GPS) Rwy 34³
VOR Rwy 34⁴
¹ILS, Categories A, B, C, 700-2; Category E, 900-3. LOC, Category E, 900-3.
²NA when control tower closed.
³NA when local weather not available.
⁴Category C, 800-2½; Category D, 800-2½.

SACRAMENTO, CA
SACRAMENTO
EXECUTIVE ILS or LOC Rwy 2
RNAV (GPS) Rwy 2
VOR Rwy 2
NA when local weather not available.

SACRAMENTO INTL ILS or LOC Rwy 34L
RNAV (GPS) Rwy 16L
RNAV (GPS) Rwy 16R
RNAV (GPS) Rwy 34L
RNAV (GPS) Rwy 34R¹
NA when local weather not available.
¹Category D, 800-2½.

SACRAMENTO MATHER . ILS or LOC Rwy 22L
NA when control tower closed.
Category E, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS
 IFR ALTERNATE AIRPORT MINIMUMS

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NAME ALTERNATE MINIMUMS
BAKERSFIELD, CA

MEADOWS FIELD . ILS or LOC/DME Rwy 30R
VOR/DME Rwy 30R

NA when control tower closed.

NA when local weather not available.

BLYTHE, CA

BLYTHE RNAV (GPS) Rwy 26
VOR/DME-A
VOR/DME Rwy 26

Category D, 900-2½.

BURBANK, CA

BOB HOPE ILS or LOC Z Rwy 8¹
LOC Y Rwy 8²
RNAV (GPS) Y Rwy 8²
VOR Rwy 8³

¹Category D, 700-2.

²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

³Category D, 900-3.

CAMARILLO, CA

CAMARILLO RNAV (GPS) Rwy 8¹
RNAV (GPS) Y Rwy 26¹
RNAV (GPS) Z Rwy 26¹
VOR Rwy 26²

¹NA when local weather not available.

²Categories A, B, 1100-2; Category C, 1100-3.

CARLSBAD, CA

MC CLELLAN-
PALOMAR ILS or LOC Rwy 24¹²
RNAV (GPS) Rwy 24³
VOR-A⁴

¹NA when control tower closed.

²ILS, Categories A,B,700-2; Category C,
800-2¾. LOC, Category C 800-2¾.

³Category D, 800-2¾.

⁴Categories A,B, 1000-2; Category C, 1000-3.

CHINO, CA

CHINO ILS or LOC Rwy 26R
NA when control tower closed.

NAME ALTERNATE MINIMUMS
DAGGETT, CA

BARSTOW-DAGGETT RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 26

NA when local weather not available.

Category B, 900-2; Category C, 1000-2¾;

Category D, 1000-3.

EL MONTE, CA

EL MONTE NDB or GPS-C¹
VOR or GPS-A¹
VOR/DME or GPS-B²

NA when control tower closed.

¹Categories A,B, 1000-2.

²Categories A,B, 1100-2.

FULLERTON, CA

FULLERTON MUNI LOC/DME Rwy 24¹
VOR-A²

¹NA when control tower closed.

²Categories A,B, 1500-2.

HAWTHORNE, CA

HAWTHORNE MUNI LOC Rwy 25
NA when control tower closed.

LA VERNE, CA

BRACKETT FIELD ILS Rwy 26L
LOC Rwy 26L
VOR or GPS-A¹

NA when control tower closed.

¹Category C, 800-2¾.

LANCASTER, CA

GENERAL WILLIAM J. FOX
AIRFIELD VOR-B¹
RNAV (GPS) Rwy 6²

¹Categories A,B, 1000-2; Categories C,D,
1000-3.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

LOMPOC, CA

LOMPOC **RNAV (GPS) Rwy 25¹**
VOR/DME-A²

¹NA when local weather not available.

²Categories A,B, 900-2.

LONG BEACH, CA

LONG BEACH(DAUGHERTY
FIELD) **ILS or LOC Rwy 30¹²**
RNAV (GPS) Z Rwy 30³
VOR or TACAN Rwy 30¹⁴

¹NA when control tower closed.

²ILS, Categories A,B, 900-2; Category C,
900-2½; Category D, 900-2¾. LOC,
Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

³Categories A,B, 900-2¼; Category C, 900-2½;
Category D, 900-2¾.

⁴Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

LOS ANGELES, CA

WHITEMAN **VOR-A**
Categories A,B, 900-2; Category C, 900-2½.
NA when control tower closed.

NEEDLES, CA

NEEDLES **VOR-A**
Category D, 800-2½.

OCEANSIDE, CA

OCEANSIDE MUNI **VOR-A**
Categories A,B, 1200-2.

ONTARIO, CA

ONTARIO INTL **RNAV (GPS) Y Rwy 8L**
RNAV (GPS) Y Rwy 26L
RNAV (GPS) Y Rwy 26R
NA when local weather not available.

OXNARD, CA

ONTARIO INTL **ILS Rwy 25¹**
LOC Rwy 25¹
RNAV (GPS) Rwy 25
NA when local weather not available.
¹NA when control tower closed.

PALM SPRINGS, CA

JACQUELINE COCHRAN
RGNL **VOR-A**
NA when control tower closed.
Categories A,B, 1300-2; Categories C,D,
1300-3.

PALM SPRINGS

INTL **VOR or GPS-B**
Categories A,B, 1900-2; Categories C,D,
1900-3.

NAME ALTERNATE MINIMUMS

PASO ROBLES, CA

PASO ROBLES MUNI **VOR or GPS-A**
Categories A,B, 1300-2; Categories C,D,
1300-3.

RAMONA, CA

RAMONA **RNAV (GPS)-B¹**
RNAV (GPS) Rwy 9²
VOR/DME-A³

NA when local weather not available.

¹Categories A,B, 1400-2; Category C, 1400-3.

²Categories A, B, 900-2; Category C, 900-2½.

³Categories A,B, 1200-2; Category C, 1200-3.

RIVERSIDE, CA

RIVERSIDE MUNI **ILS or LOC Rwy 9¹²**
RNAV (GPS) Rwy 9³⁴
RNAV (GPS) Rwy 27⁵
VOR-A³⁶
VOR-B³⁷
VOR Rwy 9³⁵

¹NA when control tower closed.

²ILS,LOC, Category C, 900-2¾; Category D,
900-2½.

³NA when local weather not available.

⁴Categories A, B, 1000-2; Categories C, D,
1000-3.

⁵Categories A, B, 1300-2; Categories C, D,
1300-3.

⁶Categories A, B, 1500-2; Categories C, D,
1500-3.

⁷Categories A, B, 1200-2; Categories C, D,
1200-3.

SAN DIEGO, CA

BROWN FIELD MUNI ... **RNAV (GPS) Rwy 8L¹**
VOR or GPS-A,800-2¾²
¹NA when local weather not available.
²NA when control tower closed.

MONTGOMERY

FIELD **ILS or LOC/DME Rwy 28R**
NA when control tower closed.

SAN DIEGO INTL **ILS or LOC Rwy 9**
LOC Rwy 27
RNAV (GPS) Rwy 9

Categories A,B, 900-2; Category C, 900-2¼;
Category D, 900-2½.

NAME ALTERNATE MINIMUMS

SAN DIEGO(EL CAJON), CA

GILLESPIE FIELD **LOC-D¹²**
RNAV (GPS) Rwy 17³⁴

¹NA when control tower closed.

²Categories A, B, 2400-2; Categories C, D, 2400-3.

³Categories A, B, 1100-2; Category C, 1100-3; Category D, 1200-3.

⁴NA when local weather not available.

SAN LUIS OBISPO, CA

SAN LUIS COUNTY **ILS Rwy 11¹**
VOR or TACAN A²

¹NA when control tower closed.

Categories A,B, 900-2; Category C, 1000-2½; Category D, 1100-3.

²Categories A,B, 1500-2; Categories C,D, 1500-3.

SANTA ANA, CA

JOHN WAYNE AIRPORT-
ORANGE COUNTY **ILS or LOC Rwy 19R¹²**
LDA Rwy 19R³⁴
LOC BC Rwy 1L²
NDB Rwy 19R⁴

¹ILS, Categories A,B,C, 800-2; Category D, 800-2½. LOC, Category D, 800-2½.

²NA when control zone not in effect.

³Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2½.

⁴NA when control tower closed.

SANTA BARBARA, CA

SANTA BARBARA MUNI . **ILS or LOC Rwy 7¹²**
RNAV (GPS) Rwy 7¹³
VOR or GPS Rwy 25⁴

¹NA when local weather not available.

²ILS, Categories A,B, 800-2; Category C,800-2½; Category D, 1000-3. LOC, Category C, 800-2½; Category D, 1000-3.

³Category C, 800-2½; Category D, 1000-3.

⁴Categories A,B, 1000-2; Categories C,D, 1000-3.

NAME ALTERNATE MINIMUMS

SANTA MARIA, CA

SANTA MARIA PUBLIC/CAPTAIN G. ALLEN
HANCOCK FIELD **ILS or LOC Rwy 12¹⁴**
LOC/DME BC-A²⁴
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 30⁶⁷
VOR Rwy 12³⁵

¹ILS, Category C, 700-2; Category D, 1100-3. LOC, Category D, 1100-3.

²Category A,B, 900-2; Category C, 900-2½; Category D, 1100-3.

³Category D, 1100-3.

⁴NA when control tower closed.

⁵NA when control tower closed except for operators with approved weather reporting service.

⁶NA when local weather not available.

⁷Categories A, B, 1400-2; Category C, 1400-3.

SANTA MONICA, CA

SANTA MONICA MUNI **VOR or GPS-A**
Category A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

SANTA YNEZ, CA

SANTA YNEZ **VOR or GPS-B**
Categories A,B, 1300-2.
NA except for operators with approved weather reporting service.

TORRANCE, CA

ZAMPERINI FIELD **ILS or LOC Rwy 29R¹**
VOR or GPS Rwy 11L,900-2²

¹NA when control tower closed.

²NA when control tower closed except for operators with approved weather reporting service.

VAN NUYS, CA

VAN NUYS **ILS Rwy 16R¹**
LDA-C²
VOR-A³⁴

¹NA when control tower closed.

²Categories A, B, 1900-2; Categories C,D, 1900-3.

³Category D, 800-2½.

⁴NA when local weather not available.

VICTORVILLE, CA

SOUTHERN CALIFORNIA
LOGISTICS **ILS or LOC Rwy 17¹**
RNAV (GPS) Rwy 17²
VOR/DME Rwy 17²

NA when local weather not available.

¹LS, Category D, 700-2½; LOC, Category D, 800-2½.

²Category D, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

LEMOORE NAS (KNLC), (REEVES FIELD), CA (Amdt 1, 08045 USN) ELEV **232**

RADAR - (E) 125.95 264.5x 270.8x 301.2x 309.9x 314.0x 336.4x 344.4x 348.75x 363.7x 383.6x 383.9x 

				DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹	RWY	GS/TCH/RPI	CAT			
	32L ²	3.0°/40/758	ABCDE	330/16	100	(100-¼)
	14L	3.0°/54/1015	ABCDE	322-½	100	(100-½)
	32R	3.0°/45/853	ABCDE	325/24	100	(100-½)
	14R	3.0°/51/984	ABCDE	331-½	100	(100-½)
PAR W/O GS	14L		ABCDE	500-1¼	278	(300-1¼)
	14R		ABCDE	520-1¼	289	(300-1¼)
	32L ³		ABCDE	540/40	310	(400-¾)
	32R		ABCDE	540/60	315	(400-1¼)
ASR	32L ⁴		AB	540/24	310	(400-½)
			CDE	540/40	310	(400-¾)
	14L		ABCDE	520-1	298	(300-1)
	14R		ABCDE	520-1	289	(300-1)
	32R		ABC	620/50	395	(400-1)
			DE	620/60	395	(400-1¼)
CIR	All Rwys ⁵		A	680-1	448	(500-1)
			B	700-1	468	(500-1)
			C	700-1½	468	(500-1½)
			DE	800-2	568	(600-2)

¹No-NOTAM MP: PAR-Rwy 14R-32L 1600-2400Z++ Mon, Rwy 14L-32R 1600-2400Z++ Wed.

²When ALS inop, increase CAT ABCDE RVR to 24 and vis to ½ mile. ³When ALS inop, increase CAT ABCDE RVR to 60 and vis to 1¼ miles. ⁴When ALS inop, increase CAT ABCDE RVR to 50 and vis to 1 mile. ⁵CIR from PAR W/O GS Rwy 14L, 14R and 32R, increase vis CAT AB to 1¼ miles.

CAMP PENDLETON MCAS (MUNN FLD)(KNFG), CA (Oceanside)

(07158 USN)

ELEV 78

RADAR - (E) 281.7 338.1   **NA**

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR	21 ¹²⁵	3.5°/49/843	ABCD	438-¾	360	(400-¾)
W/O GS	21 ⁵⁶		ABC D	520-1 520-1¼	442 442	(500-1) (500-1¼)
ASR	21 ³		A B C D	900-¾ 900-1 900-2¼ 900-2½	822 822 822 822	(900-¾) (900-1) (900-2¼) (900-2½)
CIR	All Rwy ⁴		A B C D	960-1¼ 1080-1½ 1180-3 1200-3	882 1002 1102 1122	(900-1¼) (1100-1½) (1200-3) (1200-3)

¹CAUTION: Trees penetrate obstacle surfaces within the visual portion of the procedure approximately 900' from threshold. Pilots must have trees in sight prior to descending from decision height. ²When ALS inop, increase vis CAT ABCD to 1 mile. ³When ALS inop, increase vis CAT A to 1 mile, CAT B to 1¼ miles, CAT C to 2½ miles and CAT D to 2¾ miles. ⁴Circling auth fr ASR and PAR W/O GS only. Circling Rwy 3 not auth at night. ⁵No-NOTAM prevent main sked: PAR 2100-0100Z++Mon. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT D to 1½ miles.

LOS ALAMITOS AAF (KSLI), CA (1-Amdt 5, 2-Amdt 2, 3-Orig 08101 USA) ELEV 32

RADAR¹² - (E) 124.75 127.95 279.5 285.55 290.9   **NA**

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
RADAR 1						
PAR	22L ³	3.0°/40/745	ABCD	282-¾	250	(300-¾)
PAR W/O GS	22L ⁴⁵		ABC D	420-¾ 420-1	388 388	(400-¾) (400-1)
RADAR 2						
PAR	22L	4.0°/40/572	COPTER	235-¼	200	(200-¼)
RADAR 3						
ASR	22L ⁴⁵		AB CD	440-¾ 440-1	408 408	(500-¾) (500-1)
CIR	22L ⁴		A B C D	440-1 500-1 500-1½ 600-2	408 468 468 568	(500-1) (500-1) (500-1½) (600-2)

¹PAR opr 1600-0000Z++ Mon, 1500-0600Z++ Tue-Thu, 2200-0600Z++ Fri. ²Multiple PAR apch avbl during VFR ctc twr for freq assn. ³When ALS inop, increase CAT CD vis to 1 mile. ⁴Circling NA N of Rwy 4L-22R. ⁵When ALS inop, increase vis all CATs ¼ mile.

MIRAMAR MCAS (MITSCHER FLD) (KNKX), CA (09351 USN) ELEV 477

RADAR¹ - (E) 133.625 266.8x 270.35 307.9x 328.4x 348.75 350.275 373.575 379.125 380.3x 

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
PAR	24R ²	3.0°/53/1133	ABCDE	575-¼	100	(100-¼)
	24L	3.0°/46/1032	ABCDE	577-½	100	(100-½)
PAR w/o GS ⁵						
	24R ³		AB	820-½	345	(400-½)
			CDE	820-¾	345	(400-¾)
	24L		ABC	820-1	343	(400-1)
			DE	820-1¼	343	(400-1¼)
ASR	24R ⁴		AB	880-½	405	(500-½)
			CD	880-¾	405	(500-¾)
			E	880-1	405	(500-1)
	6L		ABC	800-1	368	(400-1)
			DE	800-1¼	368	(400-1¼)
	24L		AB	880-1	403	(500-1)
			CD	880-1¼	403	(500-1¼)
			E	880-1½	403	(500-1½)
CIR ⁶	All Rwy		A	920-1	443	(500-1)
			B	940-1	463	(500-1)
			C	940-1½	463	(500-1½)
			D	1160-2¼	683	(700-2¼)
			E	1360-3	883	(900-3)

¹Other APP CON freq as asgn.

²When ALS inop, increase vis CAT ABCDE to ½ mile.

³When ALS inop, increase vis CAT ABC to 1 mile, CAT DE to 1¼ miles.

⁴When ALS inop, increase vis CAT AB to 1 mile, CAT CD to 1¼ miles, CAT E to 1½ miles.

⁵No NOTAM MP: PAR 1700-2200Z++ Tue.

⁶Circling not authorized to Rwy 10-28. CAT E circling not authorized S of Rwy 6R-24L.

NORTH ISLAND NAS (KNZY), (HALSEY FIELD), CA (San Diego) (09127USN) ELEV 26

RADAR - (E) 127.7x 133.175x 319.9x 350.8x 353.5x 382.0x 385.5x 

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹	29 ³	3.0°/36/730	ABCDE	276-¾	250	(300-¾)
	36 ⁶	3.0°/46/850	ABCDE	119-¼	100	(100-¼)
(OFFSET)	29 ⁸	3.0°/36/730	ABCDE	620-2	594	(600-2)
PAR W/O GS ¹	29 ²⁴		AB	460-½	434	(500-½)
			CD	460-¾	434	(500-¾)
			E	460-1	434	(500-1)
PAR W/O GS ¹	36		ABC	380-1	361	(400-1)
			DE	380-1¼	361	(400-1¼)
PAR W/O GS ¹ (OFFSET)	29 ²		ABCDE	620-2	594	(600-2)
ASR	29 ²⁵		AB	540-½	514	(600-½)
			C	540-1	514	(600-1)
			DE	540-1¼	514	(600-1¼)
	36 ⁷		A	800-¾	781	(800-¾)
			B	800-1	781	(800-1)
			C	800-2	781	(800-2)
			D	800-2¼	781	(800-2¼)
			E	800-2½	781	(800-2½)
(OFFSET)	29 ²		ABCDE	620-2	594	(600-2)
CIR	29 ²		AB	620-2	594	(600-2)
			CDE	NOT AUTHORIZED		
	36		ABCDE	NOT AUTHORIZED		

¹No-NOTAM MP sked 2000-2400Z++ Mon. ²Cir auth to Rwy 18 only. Cir not auth W Rwy 18-36.

³When ALS inop, increase vis CAT ABCDE to 1 mile. ⁴When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁵When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1½ miles, CAT DE to 1¾ miles. ⁶When ALS inop, increase vis CAT ABCDE to ½ mile. ⁷When ALS inop, increase vis CAT A to 1 mile, CAT B to 1¼ mile, CAT C to 2¼ mile, CAT D to 2½ mile, CAT E 2¾ mile. ⁸Minima applicable for rotorcraft short offset approaches.

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD), CA

(Oxnard) (09267 USN)

ELEV 12

RADAR⁷ - (E) 123.75x 133.25 233.7x 269.225 350.25 353.925 ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR	3 ²	3.0°/47/901	ABCDE	111-¼	100	(100-¼)
	21	3.0°/47/891	ABCDE	113-½	100	(100-½)
PAR	21(altn MAP) ⁴	3.0°/47/891	ABCDE	650-1¼	637	(700-1¼)
PAR W/O GS	3 ⁵		ABCDE	300-1	289	(300-1)
	21 ⁶		ABCDE	360-¾	347	(400-¾)
	21(altn MAP) ⁴		ABCDE	440-1¼	427	(500-1¼)
ASR	3 ³		ABC	380-¾	369	(400-¾)
			DE	380-1	369	(400-1)
	21 ³		AB	380-½	367	(400-½)
			CDE	380-¾	367	(400-¾)
ASR	21(altn MAP) ⁶		ABCDE	440-1½	427	(500-1½)
CIR ¹	3,21		A	420-1	407	(500-1)
			B	480-1	467	(500-1)
			C	480-1½	467	(500-1½)
			D	580-2	567	(600-2)
			E	NOT AUTHORIZED		

ATC Missed apch climb rate to 1500

	Knots	60	120	180	240	300	360
PAR 3	FPM	330	660	990	1320	1650	1980

Expanded RADAR svc-All flt conducted under positive ctl. Inbd acft not opr under ATC or PLEAD ctc APP CON 25 NM out on 307.275 or 128.65.

¹Circling not authorized E of Rwy 3-21, with PAR approach, or when Alternate MAP Rwy 21 in use.

²When ALS inop, increase vis CAT ABCDE to ½ mile. ³When ALS inop, increase vis CAT ABC to 1 mile, CAT DE to 1¼ miles. ⁴When ALS inop, increase vis CAT ABCDE to 2¼ miles. ⁵When ALS inop, increase vis CAT ABCDE to 1¼ miles. ⁶When ALS inop, increase vis CAT ABCDE to 2 miles.

⁷No-NOTAM preventive maint 1400-1800Z++ Mon.

SAN CLEMENTE ISLAND NALF (KNUC), (FREDERICK SHERMAN FIELD), CA

RADAR - (E) 127.05x 305.3x ▽

(09071 USN)

ELEV 184

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	23	3.0°/40/939	ABCDE	434-1	250	(300-1)
PAR ¹	W/O GS 23		ABCDE	520-1¼	336	(400-1¼)
ASR ²	23		AB	780-1	596	(600-1)
			C	780-1½	596	(600-1½)
			D	780-1¾	596	(600-1¾)
			E	780-2	596	(600-2)
CIR ³	W/O GS All Rwy		A	540-1¼	356	(400-1¼)
			B	640-1¼	456	(500-1¼)
			C	640-1½	456	(500-1½)
			DE	740-2	556	(600-2)
CIR ³	All Rwy		AB	780-1	596	(600-1)
			C	780-1½	596	(600-1½)
			DE	780-2	596	(600-2)

¹No-NOTAM MP PAR 1800-2000Z++ Tue. ²No-NOTAM MP ASR 2000-2200Z++ Tue.

³Circling not authorized S of Rwy 5-23

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

ALTURAS, CA

ALTURAS MUNI (AAT)

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use BACHS DEPARTURE.

AMEDEE AAF (KAHC),

HERLONG, CA. AMDT 1, 09239

Rwy 8, 26: 4000-3 for climb in visual conditions.

Rwy 8, 26: Cross Amedee AAF at or above 7900 before proceeding on course.

NAME TAKE-OFF MINIMUMS

ARCATA-EUREKA, CA

ARCATA

TAKE-OFF MINIMUMS: **Rwy 1**, std. w/ a min. climb of 429' per NM to 1900. **Rwy 14**, 600-2½ or std. w/ a min. climb of 486' per NM to 1000'.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn thence..., or for climb in visual conditions: cross Arcata Airport westbound at or above 1100, thence... **Rwys 14, 19**, climbing right turn thence... **Rwy 32**, climbing left turn thence...

...via ACV R-250 to HOCUT INT and continue climb to MEA on V27.

NOTE: **Rwy 1**, multiple trees beginning 182' from departure end of runway, 11' right of centerline, up to 161' AGL/370' MSL. Multiple trees beginning 281' from departure end of runway, 86' left of centerline, up to 148' AGL/357' MSL. **Rwy 14**, multiple trees beginning 838' from departure end of runway, 372' left of centerline, up to 200' AGL/759' MSL. Multiple trees beginning 1286' from departure end of runway, 716' right of centerline, up to 65' AGL/286' MSL. **Rwy 19**, multiple trees beginning 57' from departure end of runway, 270' right of centerline, up to 30' AGL/218' MSL. **Rwy 32**, multiple trees beginning 113' from departure end of runway, 211' right of centerline, up to 86' AGL/267' MSL. Multiple trees 1' from departure end of runway, 161' left of centerline, up to 21' AGL/202' MSL. Obstruction light 426' from departure end of runway, 257' right of centerline, 21' AGL/202' MSL.

AUBURN, CA

AUBURN MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, CAT A,B 600-2 or std. with a min. climb of 350' per NM to 2300. CAT C,D NA. **Rwy 25**, CAT A,B 300-1 or std. with a min. climb of 390' per NM to 1700. CAT C,D NA.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn to 3000 heading 305°, intercept MYV R-089 to MYV VOR/DME, then via assigned routing. **Rwy 25**, climb runway heading to 3000, intercept and proceed via MYV R-098 to MYV VOR/DME, then via assigned heading.

BEALE AFB (KBAB)

MARYSVILLE, CA.ORIG, 09155

DEPARTURE PROCEDURE: **Rwy 15**, Climb on a heading between 100° CW to 325° from DER. **Rwy 33**, Climb on a heading between 146° CW to 344° from DER.

TAKE-OFF OBSTACLES: **Rwy 33**, Terrain 118' MSL, 62' from DER, 500' right of centerline. Terrain 119' MSL, 190' from DER, 551' right of centerline.

BECKWOURTH, CA

NERVINO

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 7, 25**, for climb in visual conditions: cross Nervino Airport at or above 8300 before proceeding on course.

NOTE: **Rwy 7**, road 58' from departure end of runway, 469' right of centerline, 15' AGL/4920' MSL. Pole 310' from departure end of runway, 522' right of centerline, 49' AGL/4925' MSL. Pole 528' from departure end of runway, 522' right of centerline, 39' AGL/4924' MSL. Tree 1.47 NM from departure end of runway, 727' right of centerline, 100' AGL/5193' MSL. Tree 1.9 NM from departure end of runway, 2534' right of centerline, 100' AGL/5499' MSL. Bush 2.03 NM from departure end of runway, 2126' right of centerline, 4' AGL/5406' MSL. **Rwy 25**, tree 5856' from departure end of runway, 1984' right of centerline, 100' AGL/5339' MSL. Tree 1.25 NM from departure end of runway, 2439' right of centerline, 100' AGL/5420' MSL. Tree 2.07 NM from departure end of runway, 3302' left of centerline, 100' AGL/5570' MSL.

BISHOP, CA

EASTERN SIERRA RGNL

TAKE-OFF MINIMUMS: **Rwys 7, 12, 16**, NA. **Rwys 25, 30, 34**, 4000-2 or std. with a min. climb of 350' per NM to 9000.

DEPARTURE PROCEDURE: **Rwys 25, 30**, turn right.

Rwy 34, turn left, climb northwestbound to 13000 via BIH R-322 to NIKOL Int.

BYRON, CA

BYRON

TAKE-OFF MINIMUMS: **Rwy 23**, NA-obstacles.

Rwy 30, 200-1 or std. with a min. climb of 240' per NM to 300. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via heading 120° and ECA VORTAC before proceeding on course. **Rwy 12**, climbing left turn via heading 050° and ECA VORTAC R-250 to ECA VORTAC before proceeding on course. **Rwy 30**, climbing right turn via heading 130° and ECA VORTAC R-250 to ECA VORTAC before proceeding on course.

NOTE: **Rwy 5**, bush 17' from departure end of runway, 67' right of centerline, 6' AGL/52' MSL. **Rwy 12**, multiple trees and bush beginning 240' from departure end of runway, 286' right of centerline, up to 39' AGL/76' MSL. **Rwy 30**, multiple poles, building, and terrain beginning 66' from departure end of runway, 228' left of centerline, up to 65' AGL/225' MSL. Multiple poles beginning 949' from departure end of runway, 28' right of centerline, up to 42' AGL/103' MSL.

CHICO, CA

CHICO MUNI

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. **All aircraft**, climb via CIC R-205 to JINGO Int. Aircraft departing JINGO Int 020° CW 350° climb on course. All others climb in JINGO Int holding pattern (SE, right turns, 320° inbound) to depart JINGO Int at or above 2800.

CLOVERDALE, CA

CLOVERDALE MUNI

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2 or std. with a min. climb of 280' per NM to 1500, then a min. climb of 260' per NM to 3900. **Rwy 32**, NA.

DEPARTURE PROCEDURE: **Rwy 14**, climb direct STS VOR/DME. Continue climb in holding pattern (NW right turns, 140° inbound) to MEA for route of flight.

NOTE: **Rwy 14**, tree 9337' from departure end of runway, 4633' right of centerline, 150' AGL/889' MSL.

COLUMBIA, CA

COLUMBIA

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1 with a min. climb rate of 300' per NM to 3000. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use FICHU RNAV DEPARTURE. **Rwy 35**, NA.

NOTE: **Rwy 17**, 51' AGL pole 502' from departure end of runway, 368' right of centerline, 90' AGL tree 483' from departure end of runway, 535' right of centerline; 100' AGL tree 1258' from departure end of runway, 494' left of centerline; 167' AGL tree 1644' from departure end of runway, 924' right of centerline.

COLUSA, CA

COLUSA COUNTY

DEPARTURE PROCEDURE: Climb direct to ILA VORTAC.

CONCORD, CA

BUCHANAN FIELD (CCR)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1L/R**, std. w/ min. climb of 360' per NM to 1100, or 2200-3 for climb in visual conditions. **Rwys 14L/R**, std. w/ min. climb of 420' per NM to 2700, or 2200-3 for climb in visual conditions. **Rwys 19L/R**, std. w/ min. climb of 490' per NM to 4000, or 2200-3 for climb in visual conditions. **Rwys 32L/R**, std. w/ min. climb of 320' per NM to 500, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 1L/R**, climb direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence... **Rwys 14L/R, 19L/R** climbing left turn direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence... **Rwys 32L/R**, climbing right turn direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence...

...aircraft departing CCR VOR/DME R-150 clockwise R-110 climb on course. All others climb in CCR VOR/DME holding pattern (north, left turns, 191° inbound) to cross CCR VOR/DME at or above 2700 before proceeding on course.

NOTE: **Rwy 1L**, multiple trees and bushes beginning 675' from departure end of runway, 9' left of centerline, up to 48' AGL/98' MSL. Multiple poles, light poles and antennas on buildings beginning 639' from departure end of runway, 120' left of centerline, up to 50' AGL/72' MSL. Fence 117' from departure end of runway, 2' right of centerline, 12' AGL/29' MSL. Sign 1996' from departure end of runway, 812' left of centerline, 45' AGL/78' MSL. Flagpole 1520' from departure end of runway, 753' left of centerline, 40' AGL/71' MSL. **Rwy 1R**, multiple trees and poles beginning 1552' from departure end of runway, 98' right of centerline, up to 52' AGL/131' MSL. **Rwy 19R**, multiple trees beginning 604' from departure end of runway, 82' left of centerline, up to 70' AGL/108' MSL. Light pole 1392' from departure end of runway, 749' right of centerline, 51' AGL/71' MSL. Obstruction light on building 2451' from departure end of runway, 911' left of centerline, 73' AGL/97' MSL. Fence 123' from departure end of runway, 503' left of centerline, 6' AGL/30' MSL. **Rwy 19L**, multiple trees beginning 2132' from departure end of runway, 28' left of centerline, up to 70' AGL/106' MSL. **Rwy 32L**, road/vehicle 561' from departure end of runway, on centerline, 15' AGL/49' MSL. Light on tank 6617' from departure end of runway, 1926' right of centerline, 114' AGL/213' MSL. Hangar 259' from departure end of runway, 300' left of centerline, 21' AGL/37' MSL. Transmission tower 6015' from departure end of runway, 1338' left of centerline, 145' AGL/173' MSL. Tree 825' from departure end of runway, 136' left of centerline, 25' AGL/40' MSL, building 633' from departure end of runway, 254' right of centerline, 20' AGL/35' MSL.

BUCHANAN FIELD (CON'T)

Rwy 32R, train 6345' from departure end of runway, 1948' left of centerline, 23' AGL/102' MSL, obstruction light on hopper 2110' from departure end of runway, 601' right of centerline, 79' AGL/99' MSL. Obstacle light on tank 6617' from departure end of runway, 1426' right of centerline, 193' AGL/213' MSL. Flagpole 655' from departure end of runway, 300' right of centerline, 35' AGL/43' MSL. Sign 697' from departure end of runway, 248' right of centerline, 25' AGL/41' MSL. Road/vehicle 561' from departure end of runway, on centerline, 15' AGL/49' MSL. Building 633' from departure end of runway, 246' left of centerline, 20' AGL/35' MSL, tree 825' from departure end of runway, 635' left of centerline, 25' AGL/40' MSL, transmission tower 6015' from departure end of runway, 1839' left of centerline, 145' AGL/173' MSL. **Rwy 14R**, obstacle lights, obstacle lights on buildings, obstacle lights on windsocks, buildings and trees beginning 412' from departure end of runway, 167' right of centerline, up to 104' AGL/136' MSL. **Rwy 14L**, multiple trees beginning 841' from departure end of runway, 61' left of centerline, up to 78' AGL/102' MSL, building 1071' from departure end of runway, 35' left of centerline, 30' AGL/58' MSL. Fence 225' from departure end of runway, 29' left of centerline, 12' AGL/33' MSL.

CRESCENT CITY, CA

JACK MCNAMARA FIELD

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1. **Rwy 17**, 300-1 or std. with a min. climb of 240' per NM to 300.

DEPARTURE PROCEDURE: **Rwys 11, 17**, climbing right turn. **Rwys 29, 35**, climbing left turn. All aircraft, climb direct CEC VORTAC. Aircraft departing CEC R-131 CW R-330 climb on course. All others continue climb in CEC holding pattern (S, left turns, 341° inbound) to cross CEC VORTAC at or above: R-331 CWR-010, 1100; R-011 CWR-050, 2200; R-051 CWR-090, 4100; R-091 CWR-130, 2700.

DAVIS, CA

UNIVERSITY (EDU)

AMDT 3 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn via heading 200° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course. **Rwy 35**, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

NOTE: **Rwy 17**, trees beginning 1353' from DER, 31' right of centerline, up to 40' AGL/109' MSL. **Rwy 35**, tree 24' from DER, 433' left of centerline, 40' AGL/104' MSL. Vehicle 288' from DER, on centerline, 15' AGL/74' MSL.

DAVIS/WOODLAND/WINTERS, CA

YOLO COUNTY (DWA)
AMDT 1 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 164° to 2100 before turning right. **Rwy 34**, climb heading 344° to 1500 before turning left.

NOTE: **Rwy 16**, multiple trees beginning 595' from DER, 308' right of centerline, up to 120' AGL/206' MSL. Multiple trees beginning 1046' from DER, 257' left of centerline, up to 120' AGL/195' MSL. **Rwy 34**, multiple trees beginning 417' from DER, 361' right of centerline, up to 120' AGL/206' MSL. Trees beginning 683' from DER, 491' left of centerline, up to 120' AGL/206' MSL. Pole 859' from DER, 548' left of centerline, 47' AGL/137' MSL.

EUREKA, CA

MURRAY FIELD (EKA)
AMDT 4 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 465' per NM to 1800 or 3800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12** climbing right turn heading 265° to intercept V27. For climb in visual conditions: cross Eureka airport at or above 3700 before proceeding on course. **Rwy 30**, climbing left turn heading 265° to intercept V27.

NOTE: **Rwy 12**, bush 50' from DER, 82' left of centerline, 6' AGL/16' MSL. Multiple trees beginning 1.5 NM from DER, 2993' left of centerline. Multiple trees beginning 1.6 NM from DER, 2318' right of centerline. **Rwy 30**, multiple trees, beginning 443' from DER, 389' right of centerline, up to 93' AGL/103' MSL. Tree 664' from DER, 587' left of centerline, 46' AGL/56' MSL. Pole 753' from DER, 155' right of centerline 27' AGL/ 37' MSL. Railroad 786' from DER, 4' left of centerline 23' AGL/31' MSL. Road beginning 602' from DER, 4' left of centerline up to 15' AGL/23' MSL. Bush 566' from DER, 69' left of centerline, 8' AGL/18' MSL.

FIREBAUGH, CA

FIREBAUGH

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn. **Rwy 30**, climbing left turn. **All aircraft** climb via heading 150° and PNXN R-061 to MENDO Int. Aircraft departing MENDO Int, heading 230° CW 150° climb on course. All others climb in MENDO holding pattern (NE, right turns, 241° inbound) to cross MENDO Int at or above 2000.

FORTUNA, CA

ROHNERVILLE

TAKE-OFF MINIMUMS: **Rwy 11**, NA.

DEPARTURE PROCEDURE: Climb direct FOT VORTAC. Continue climb in holding pattern (N, right turns, 161° inbound) to cross FOT VORTAC at or above 3000.

FRESNO, CA

FRESNO-CHANDLER EXECUTIVE (FCH)
AMDT 2 09015 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 111° to 2000 then climbing right turn to 6300 via heading 200° and CZQ VORTAC R-167 before proceeding on course. **Rwy 30**, climb heading 291° to 2000 then climbing left turn to 5500 via heading 140° and CZQ VORTAC R-167 before proceeding on course.

NOTE: **Rwy 12**, multiple trees, poles, and terrain beginning 84' from departure end of runway, 16' left of centerline, up to 92' AGL/371' MSL. Multiple trees, poles, road, fence and terrain beginning 53' from departure end of runway, 94' right of centerline, up to 62' AGL/341' MSL. **Rwy 30**, multiple trees, poles, bushes and terrain beginning 125' from departure end of runway, 46' left of centerline, up to 111' AGL/389' MSL. Multiple poles, road, and fence beginning 236' from departure end of runway, 23' right of centerline, up to 42' AGL/320' MSL.

FRESNO YOSEMITE INTL

DEPARTURE PROCEDURE: **Rwys 11L, 11R**, climbing left turn direct CZQ VORTAC. **Rwys 29L, 29R**, climbing right turn direct CZQ VORTAC. All aircraft climb in CZQ VORTAC holding pattern (SE, left turns, 322° inbound) to cross CZQ VORTAC at or above MEA/ MCA for direction of flight before proceeding en route.

NOTE: **Rwy 11L**, pole 647' from departure end of runway, 543' left of centerline, 17' AGL/349' MSL. Sign 1693' from departure end of runway, 863' right of centerline, 53' AGL/383' MSL. **Rwy 11R**, transmissometer 432' from departure end of runway, 281' left of centerline, 19' AGL/ 349' MSL. Light, 1701' from departure end of runway, 293' right of centerline, 53' AGL/386' MSL. **Rwy 29L**, arresting sys, 124' from departure end of runway, 527' right of centerline, 2' AGL/334' MSL. Building 219' from departure end of runway, 296' left of centerline, 7' AGL, 336' MSL. **Rwy 29R**, trees 1076' from departure end of runway, 775' right of centerline, 63' AGL/397' MSL. Arresting sys, 95' from departure end of runway, 149' right of centerline, 3' AGL/336' MSL. Multiple trees beginning 1076' from departure end of runway, 775' right of centerline, up to 75' AGL/397' MSL.

GRASS VALLEY, CA

NEVADA COUNTY AIR PARK

TAKE-OFF MINIMUMS: **Rwy 7**, NA.

DEPARTURE PROCEDURE: **Rwy 25**, climb via MYV R-058 to 6000 then continue climb on course.

GROVELAND, CA

PINE MOUNTAIN LAKE

TAKE-OFF MINIMUMS: **Rwy 9**, 400-2 or std. with a min. climb of 400' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 9**, turn right.

Rwy 27, turn left. **All aircraft** climb direct LIN VORTAC. Cross LIN VORTAC at or above 5000.

HALF MOON BAY, CA

HALF MOON BAY

TAKE-OFF MINIMUMS: **Rwy 12**, 2600-2 or std. with a min. climb of 300' per NM to 3000. **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 3000, then climb direct OSI VORTAC, to cross OSI VORTAC at or above 3500 before proceeding on course.

HANFORD, CA**HANFORD MUNI**

DEPARTURE PROCEDURE: **Rwy 14**, climbing left turn heading 050° to intercept V-23. **Rwy 32**, climbing right turn heading 050° to intercept V-23.

HAYWARD, CA**HAYWARD EXECUTIVE**

TAKE-OFF MINIMUMS: **Rwys 10L, 10R**, 300-1.

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, climb straight ahead. **Rwys 10L, 10R**, turn right, climb to 2500 via direct OAK VORTAC and OAK R-288. Aircraft southeastbound and capable of climbing 250' per NM to 4500 may proceed direct to MABRY Int via OAK R-114.

HOLLISTER, CA**HOLLISTER MUNI (CVH)****AMDT 1 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6**, NA-obstacles. **Rwy 24**, NA-ATC. **Rwy 13**, std. w/ min. climb of 391' per NM to 3500, or 3100-3 for climb in visual conditions. **Rwy 31**, std. w/ min climb of 209' per NM to 2300, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn to heading 332° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course. **Rwy 31**, climb heading 307° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course.

NOTE: **Rwy 13**, terrain beginning 992' from departure end of runway, 348' left of centerline, up to 289' MSL. Terrain beginning 2467' from departure end of runway, 154' right of centerline, up to 309' MSL, trees beginning 1277' from departure end of runway, 348' left of centerline, up to 309' MSL, trees beginning 2467' from departure end of runway, 153' right of centerline, up to 270' MSL. **Rwy 31**, terrain beginning 76' from departure end of runway, 392' left of centerline, up to 247' MSL. Terrain beginning 14' from departure end of runway, 179' right of centerline, up to 231' MSL.

JACKSON, CA**WESTOVER FIELD AMADOR COUNTY**

DEPARTURE PROCEDURE: **Rwy 1**, turn left. **Rwy 19**, turn right. All aircraft climb direct LIN VORTAC, continue climb on course.

LAKEPORT, CA**LAMPSON FIELD**

TAKE-OFF MINIMUMS: **Rwy 10**, 1700-3 or std. with a min. climb of 610' per NM to 3200. **Rwy 28**, 1500-3 or std. with a min. climb of 620' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn to heading 275°. **Rwy 28**, climbing right turn to heading 035°. Intercept and climb northwestbound via the LOP NDB 336° bearing to 4000, then climbing left turn direct ENI VORTAC. Cross ENI VORTAC at or above 6000.

LEMOORE NAS (REEVES FIELD) (KNLC)**LEMOORE, CA 07270**

Rwy 14L, Cross DER at or above 15' AGL/235' MSL.

Rwy 14R, Cross DER at or above 15' AGL/245' MSL.

Rwy 32L, Cross DER at or above 15' AGL/234' MSL,

Departure headings 142° CW 283°, minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600.

Rwy 32R, Cross DER at or above 15' AGL/239' MSL,

Departure headings 142° CW 281° minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600.

LINCOLN, CA**LINCOLN RGNL/KARL HARDER FIELD**

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn. **Rwy 33**, climbing left turn. All aircraft climb direct MYV VOR/DME, then climb on course.

LIVERMORE, CA**LIVERMORE MUNI**

TAKE-OFF MINIMUMS: **Rwys 7L, 7R**, 1500-2 or std. with a min. climb of 260' per NM to 2200.

Rwys 25L, 25R, 2300-2 or std. with a min. climb of 375' per NM to 3100.

DEPARTURE PROCEDURE: **Rwys 7L, 7R**, climb direct REIGALOM, then climbing left turn via the 030° bearing from REIGALOM to intercept V109, then proceed on course. **Rwys 25L, 25R**, climb runway heading to 1200, then climbing right turn via heading 020° and OAK R-060 to ALTAM Int, then proceed on course.

LODI, CA**LODI**

DEPARTURE PROCEDURE: Climb direct to LIN VORTAC.

LOS BANOS, CA**LOS BANOS MUNI (LSN)****AMDT 2 09351 (FAA)**

DEPARTURE PROCEDURE: **Rwy 14**, climb on a heading between 318° CW to 151° from DER, or minimum climb of 320' per NM to 5100 for all other courses. **Rwy 32**, climb on a heading between 260° CW to 137° from DER, or minimum climb of 273' per NM to 5200 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, buildings beginning 3' from DER, 24' left of centerline, up to 73' AGL/194' MSL. Multiple trees, poles, buildings beginning 20' from DER, 21' right of centerline, up to 85' AGL/206' MSL. **Rwy 32**, multiple trees beginning 220' from DER, 453' right of centerline, up to 40' AGL/160' MSL. Multiple poles, beginning 1120' from DER, 173' left of centerline, up to 60' AGL/181' MSL.

MADERA, CA**MADERA MUNI**

DEPARTURE PROCEDURE: **Rwy 30**, climbing right turn via FRA R-243 to BEREN Int/FRA 18.6 DME then via assigned route. **Rwy 12**, turn left, climb heading 095° to 1500, continue climb direct CZQ VORTAC, then via assigned route.

MAMMOTH LAKES, CA**MAMMOTH YOSEMITE**

TAKE-OFF MINIMUMS: **Rwy 9**, 500-2 or std. with a min. climb of 400' per NM to 10700. **Rwy 27**, 5000-5 or std. with a min. climb of 450' per NM to 11800.

DEPARTURE PROCEDURE: **Rwy 9**, climbing left turn heading 050° to intercept BIH R-307. **Rwy 27**, climbing right turn to heading 095° to intercept BIH R-307.

All aircraft proceed via BIH R-307 to BIH VOR/DME, then via BIH R-322 (V381) to NIKOL Int then via assigned route.

MARINA, CA**MARINA MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, std. with a min. climb of 291' PER nm TO 4600, OR 2000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, for climb in visual conditions: cross Marina Municipal Airport at or above 2100, continue climb direct SNS VORTAC, thence...

Rwy 29, climb via heading 288° to 1000', then climbing right turn direct SNS VORTAC, thence... **All aircraft** continue climb in SNS holding pattern (W, left turns, SNS VORTAC 084° inbound) to cross SNS VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

MARIPOSA, CA**MARIPOSA-YOSEMITE**

TAKE-OFF MINIMUMS: **Rwy 8**, N/A-Obstacles

DEPARTURE PROCEDURE: **Rwy 26**, climb via heading 265° to 3000, then climbing left turn to 7000 direct FRA VORTAC before proceeding on course.

NOTE: **Rwy 26**, tree 10' from departure end of runway, 313' left of centerline, 100' AGL/2265' MSL. Tree 1146' from departure end of runway, 303' left of centerline, 100' AGL/2298' MSL.

MARYSVILLE, CA**YUBA COUNTY**

DEPARTURE PROCEDURE: **All runways**, climb direct ILA VORTAC.

MERCED, CA**CASTLE (MER)****AMDT 1 09015 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 250' per NM to 2500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 126° to 2500 before turning left. For climb in visual conditions: Cross Castle Airport at or above 2200 before proceeding on course. **Rwy 31**, climb heading 306° to 1100 before turning right.

NOTE: **Rwy 13**, tree 2539' from departure end of runway, 1005' right of centerline, 89' AGL/261' MSL. **Rwy 31**, Tree 1274' from departure end of runway, 829' left of centerline, 20' AGL/224' MSL. Trees beginning 2909' from departure end of runway, 542' right of centerline, 65' AGL/269' MSL.

MERCED, CA (CON'T)**MERCED RGNL/MACREADY FIELD (MCE)****AMDT 5A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn to 3000 via heading 330° and MOD R-120 to MOD.

Rwy 30, climb to 3000 via heading 300° and MOD R-120 to MOD.

MODESTO, CA**MODESTO CITY-COUNTY HARRY SHAM FIELD (MOD)****AMDT 5 08269 (FAA)**

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, climb on a heading between 256° CW to 109° from departure end of runway, or minimum climb of 230' per NM to 5000 for all other courses.

NOTE: **Rwy 10R**, post 55' from departure end of runway, 204' right of centerline, 15' AGL/85' MSL. Multiple trees beginning 180' from departure end of runway, 295' right of centerline, up to 105' AGL/194' MSL. Multiple trees beginning 839' from departure end of runway, 81' left of centerline, up to 88' AGL/148' MSL. **Rwy 10L**, multiple trees beginning 915' from departure end of runway, 598' right of centerline, up to 87' AGL/167' MSL. **Rwy 28R**, pole 746' from departure end of runway, 700' right of centerline, 40' AGL/133' MSL. Pole 1414' from departure end of runway, 624' right of centerline, 40' AGL/133' MSL. Multiple trees beginning 2069' from departure end of runway, 378' left of centerline, up to 74' AGL/173' MSL. Building 2176' from departure end of runway, 21' left of centerline, 56' AGL/151' MSL. **Rwy 28L**, light pole 142' from departure end of runway, 519' left of centerline, 40' AGL/136' MSL. Hanger 358' from departure end of runway, 306' left of centerline, 15' AGL/109' MSL. Multiple trees beginning 745' from departure end of runway, 375' left of centerline, up to 79' AGL/173' MSL. Multiple trees, building and antenna beginning 1170' from departure end of runway, 322' right of centerline, up to 57' AGL/152' MSL.

MONTAGUE, CA**SISKIYOU COUNTY**

TAKE-OFF MINIMUMS: **Rwy 17**, CAT A, B 2400-2 or std. with a min. climb of 350' per NM to 5500. CAT C, D 4100-2 or std. with a min. climb of 350' per NM to 7400.

Rwy 35, 4000-2 or std. with a min. climb of 300' per NM to 7000.

DEPARTURE PROCEDURE: **Rwy 17**, climb direct MOG NDB. Continue climb to 10000 in MOG holding pattern (N, right turns, 172° inbound). **Rwy 35**, climb to 7000 via runway heading and 352° bearing from MOG NDB, then climbing right turn to 10000 direct MOG NDB. **All aircraft** depart MOG NDB at or above MEA for route of flight.

MONTEREY, CA

MONTEREY PENINSULA (MRY)

AMDT 6 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10L**, std. w/ min. climb of 428' per NM to 1900 or 1700-2½ for climb in visual conditions. **Rwy 10R**, std. w/ min. climb of 451' per NM to 1900 or 1700-2½ for climb in visual conditions.

Rwy 28L, std. w/ min. climb of 218' per NM to 800 or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10L**, climbing left turn heading 020° and SNS VORTAC R-231 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course. **Rwy 10R**, climbing left turn heading 020° and SNS VORTAC R-231 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course.

Rwy 28L, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course. **Rwy 28R**, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC before proceeding on course.

NOTE: **Rwy 10L**, obstruction light on DME 555' from DER, 217' right of centerline, 12' AGL/272' MSL. Tree 1.8 NM from DER, 2817' right of centerline, up to 100' AGL/859' MSL. **Rwy 10R**, obstruction light on DME 64' from DER, 284' left of centerline, 12' AGL/272' MSL. Tree 1.7 NM from DER, 2318' right of centerline, up to 100' AGL/859' MSL. **Rwy 28L**, tree 743' from DER, 619' left of centerline, up to 100' AGL/240' MSL. Tree 2.9 NM from DER, 2298' left of centerline, up to 100' AGL/640' MSL. Tree 2.9 NM from DER, 4578' left of centerline, 114' AGL/853' MSL. **Rwy 28R**, airplane 6' from DER, 179' left of centerline, 64' AGL/263' MSL.

MOUNTAIN VIEW, CA

MOFFETT FEDERAL AFLD

TAKE-OFF MINIMUMS: **Rwy 14L**, std. with a min. climb of 489' per NM to 6100. **Rwy 14R**, std. with a min. climb of 495' per NM to 6100. **Rwy 32L**, std. with a min. climb of 429' per NM to 6100. **Rwy 32R**, std. with a min. climb of 424' per NM to 6100.

NAPA, CA

NAPA COUNTY

TAKE-OFF MINIMUMS: **Rwy 6**, 1800-2½, climb in visual conditions to cross Napa County Airport at or above 1700 MSL before proceeding direct SGD VORTAC or std. with a min. climb of 475' per NM to 1400.

Rwys 36L, 36R, 1800-2½, climb in visual conditions to cross Napa County Airport at or above 1700 MSL before proceeding direct SGD VORTAC or std. with a min. climb of 370' per NM to 1200.

DEPARTURE PROCEDURE: **Rwys 6, 18L, 18R**, turn right. **Rwys 24, 36L, 36R**, turn left. All aircraft climb direct SGD VORTAC. Aircraft departing SGD R-060 CWR-270 climb on course. All others continue climb via SGD R-165 to 2000, then climbing right turn direct SGD VORTAC, climb on course.

NOTE: **Rwy 6**, Flood light 90' from departure end of runway, 500' left of centerline, 30' AGL/64' MSL. Flood light 581' from departure end of runway, 485' left of centerline, 30' AGL/67' MSL. Railroad 1143' to 1236' from departure end of runway, on centerline to 500' left of centerline, 23' AGL/64' to 67' MSL. Pole 1396' from departure end of runway, 741' right of centerline, 33' AGL/77' MSL. Trees 1563' from departure end of runway, 575' left of centerline, 34' AGL/78' MSL. Trees 2331' from departure end of runway, 203' right of centerline, 53' AGL/106' MSL. Trees 3297' from departure end of runway, 476' left of centerline, 52' AGL/131' MSL. Obstruction light hopper 3440' from departure end of runway, 273' right of centerline, 50' AGL/133' MSL. Trees 4895' from departure end of runway, 1067' left of centerline, 108' AGL/198' MSL.

Rwy 18L, tree 4982' from departure end of runway, 237' left of centerline, 58' AGL/92' MSL. **Rwy 24**, bridge 4964' from departure end of runway, 1716' right of centerline, 167' AGL/167' MSL. **Rwy 36R**, floodlight 462' from departure end of runway, 339' right of centerline, 29' AGL/53' MSL. Tree 8701' from departure end of runway, 1286' right of centerline, 70' AGL/289' MSL. Tree 8838' from departure end of runway, 2299' right of centerline, 64' AGL/383' MSL. **Rwy 36L**, terrain 1' from departure end of runway, 491' left of centerline, 34' MSL. Terrain 210' from departure end of runway, 417' left of centerline, 32' MSL. Trees 595' from departure end of runway, 517' right of centerline, 18' AGL/42' MSL. Trees 3182' from departure end of runway, 793' right of centerline, 81' AGL/117' MSL. Trees 4636' from departure end of runway, 345' right of centerline, 114' AGL/153' MSL. Trees 7061' from departure end of runway, 1800' right of centerline, 70' AGL/289' MSL. Pole 12845' from departure end of runway, 1471' right of centerline, 53' AGL/372' MSL. Pole 13005' from departure end of runway, 3483' right of centerline, 39' AGL/558' MSL. Tree 19688' from departure end of runway, 2155' right of centerline, 100' AGL/894' MSL.

NOVATO, CA

GROSS FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, NA. **Rwy 31**, 500-2 or std. with a min. climb of 250' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 31**, climbing right turn direct SGD VORTAC before proceeding on course.

OAKDALE, CA**OAKDALE**

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn via heading 020° and LIN VORTAC R-124 to WRAPS INT/LIN 16.66 DME. Climb in WRAPS holding pattern (Northwest, right turn, 124° inbound) to cross WRAPS INT at or above MEA for direction of flight. **Rwy 28**, climb via heading 276° and LIN VORTAC R-146 to LIN VORTAC cross LIN VORTAC at or above MEA for direction of flight.

NOTE: **Rwy 10**, terrain beginning 388' from departure end of runway, up to 279' MSL. **Rwy 28**, powerline 3447' from departure end of runway, 407' right of centerline, 115' AGL/329' MSL.

OAKLAND, CA**METROPOLITAN OAKLAND INTL**

DEPARTURE PROCEDURE: **Rwys 9L, 9R, 11, 15, 29**, turn right. **Rwys 27L, 27R**, maintain runway heading. **Rwy 33**, turn left. **All aircraft** climb to 4000 or above via V107 to COMMO Int. If not at 4000 at COMMO Int, climb in holding pattern (E, right turns, 288° inbound) before proceeding on course.

ORLAND, CA**HAIGH FIELD**

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn. **Rwy 33**, climbing right turn. **All aircraft** climb via CIC R-238 to GONGS Int. Aircraft departing GONGS Int 070° CW 240° or 290° CW 360° climb on course. All others climb in GONGS holding pattern (NE, right turns, 238° inbound) to depart GONGS Int at or above: 001° CW 069°, 3200; 241° CW 289°, 2300.

OROVILLE, CA**OROVILLE MUNI (OVE)****AMDT 2A 09267 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 1**, 1300-2 or std. w/ min. climb of 260' per NM to 1700. **Rwy 30**, 400-1¾ or std. w/ min. climb of 245' per NM to 600.

DEPARTURE PROCEDURE: **Rwys 1, 30**, climbing left turn heading 170°. **Rwys 12, 19**, climbing right turn heading 290°. **All aircraft** climb via MXWR-052 to TALUM Int/MXW 16.9 DME. Continue climb on course.

NOTE: **Rwy 1**, light poles beginning 1368' from DER, 538' right of centerline, up to 71' AGL/255' MSL. Tree 513' from DER, 603' left of centerline, 52' AGL/236' MSL. Windsock 1143' from DER, 350' right of centerline, 19' AGL/213' MSL. Ground 191' from DER, 489' right of centerline, 190' MSL. **Rwy 12**, light on pole 128' from DER, 293' right of centerline, 27' AGL/203' MSL. **Rwy 19**, pole 902' from DER, 655' right of centerline, 36' AGL/ 217' MSL. Vehicle on road 819' from DER, 376' left of centerline, 15' AGL/203' MSL. **Rwy 30**, obstruction light on transmission tower 1.4 NM from DER, 1825' right of centerline, 250' AGL/442' MSL. Tree 642' from DER, 638' left of centerline, 52' AGL/244' MSL.

PALO ALTO, CA**PALO ALTO AIRPORT OF
SANTA CLARA COUNTY**

DEPARTURE PROCEDURE: **Rwy 13**, turn left.

Rwy 31, turn right. **All aircraft** climb direct SJC VOR/ DME before proceeding on course.

PETALUMA, CA**PETALUMA MUNI**

DEPARTURE PROCEDURE: **Rwy 11**, climb to 2400 or above direct SGD VORTAC. **Rwy 29**, climb runway heading to 1500 then climbing left turn to 3000 direct SGD VORTAC. **All aircraft** continue climb to MEA for route of flight.

PLACERVILLE, CA**PLACERVILLE (PVF)****AMDT 2 08045 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 5**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 23**, climb to 5000 via HNW R-226 then climbing right turn via HNW R-226 to HNW VOR/DME. Aircraft departing HNW VOR/DME R-180 CW R-303 climb on course; all others climb in HNW VOR/DME holding pattern (Hold SW, right turn, 048° inbound) to cross HNW VOR/DME at or above MEA/MCA for direction of flight before proceeding en route.

NOTE: **Rwy 23**, hangar 20' from departure end of runway, 340' right of centerline, 27' AGL/2586' MSL.

PORTERVILLE, CA**PORTERVILLE MUNI**

TAKE-OFF MINIMUMS: **Rwy 12**, 200-1 or std. with a min. climb rate of 220' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn. **Rwy 30**, climbing left turn. **All aircraft** climb direct to TTE VOR/DME. Aircraft departing TTE R-146 CW R-330 climb on course. All others, continue climb in TTE holding pattern (NW, right turns, 143° inbound) to cross: TTE R-331 CW R-060, 8600; R-061 CWR-145, 7000.

NOTE: 559' frost fan 3000' east southeast runway 12.

RED BLUFF, CA**RED BLUFF MUNI**

TAKE-OFF MINIMUMS: **Rwy 33**, CATS C,D 2500-2 or std. with a min. climb of 300' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 15**, climb direct RBL VORTAC. **Rwy 33**, climbing right turn direct RBL VORTAC. **All aircraft** departing RBL R-091 CW R-200 climb on course. All others climb in RBL holding pattern (S, right turns, 341° inbound) to depart RBL VORTAC at or above: R-021 CW R-060, 4500; R-061 CWR-090, 2100; R-201 CWR-270, 4000; R-271 CWR-020, 2400.

REDDING, CA**REDDING MUNI**

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 122° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course. **Rwy 16**, climbing left turn heading 110° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course. **Rwys 30, 34**, climbing right turn heading 110° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.

NOTE: **Rwy 12**, multiple trees and bush 86' from departure end of runway, 174' left of centerline up to 87' AGL/576' MSL, fence and equipment 282' from departure end of runway, 330' left of centerline, up to 8' AGL/500' MSL. **Rwy 30**, multiple trees beginning 1936' from departure end of runway, 210' left of centerline, up to 94' AGL/594' MSL, multiple trees beginning 1686' from departure end of runway, 326' right of centerline, 68' AGL/568' MSL. Multiple poles and antenna on hangar beginning 289' from departure end of runway, 385' left of centerline up to 34' AGL/534' MSL. Rod on pole 850' from departure end of runway, 524' right of centerline, 36' AGL/536' MSL. Powerline 2419' from departure end of runway, 1091' left of centerline 84' AGL/584' MSL. Hangar 1126' from departure end of runway, 528' left of centerline, 37' AGL/537' MSL. **Rwy 34**, sign 98' from departure end of runway, 356' left of centerline 5' AGL/510' MSL, tree 588' from departure end of runway, 483' left of centerline 16' AGL/521' MSL.

RIO VISTA, CA**RIO VISTA MUNI**

DEPARTURE PROCEDURE: **Rwy 7**, turn left. **Rwys 14, 25, 32** turn right. **All aircraft** climb direct SAC VORTAC.

SACRAMENTO, CA**MC CLELLAN AIRFIELD (MCC)****AMDT 1 08101 (FAA)**

TAKE-OFF MINIMUMS: STANDARD.

SACRAMENTO, CA (CON'T)**SACRAMENTO EXECUTIVE (SAC)****ORIG 08325 (FAA)**

NOTE: **Rwy 2**, multiple trees 1128' from departure end of runway, 108' left of centerline, up to 76' AGL/96' MSL. Antenna 1376' from departure end of runway, 663' left of centerline, 51' AGL/71' MSL. Trees 1858' from departure end of runway, 137' right of centerline, 73' AGL/93' MSL. **Rwy 12**, multiple trees 518' from departure end of runway, 26' left of centerline, up to 83' AGL/98' MSL. Light pole 507' from departure end of runway, 336' left of centerline, 37' AGL/52' MSL. Transmission pole 3971' from departure end of runway 647' left of centerline, 130' AGL/154' MSL. Multiple trees 475' from departure end of runway, 476' right of centerline up to 97' AGL/112' MSL. Light poles 711' from departure end of runway, 241' right of centerline, 36' AGL/51' MSL. **Rwy 16**, light pole 22' from departure end of runway, 481' left of centerline, 38' AGL/53' MSL. Antenna 540' from departure end of runway, 516' left of centerline, 53' AGL/67' MSL. Multiple trees beginning 1317' from departure end of runway, 36' left of centerline, up to 78' AGL/88' MSL. Multiple trees beginning 588' from departure end of runway, 195' right of centerline, up to 67' AGL/77' MSL. **Rwy 20**, multiple trees beginning 850' from departure end of runway, 626' left of centerline, up to 92' AGL/107' MSL. Multiple trees beginning 714' from departure end of runway, 515' right of centerline, up to 66' AGL/81' MSL. **Rwy 30**, obstruction light on hangers 460' from departure end of runway, 360' right of centerline, 25' AGL/43' MSL. Multiple trees beginning 631' from departure end of runway, 195' right of centerline, up to 56' AGL/74' MSL. Multiple trees beginning 1331' from departure end of runway, 247' left of centerline, up to 90' AGL/110' MSL. Antenna on building 1543' from departure end of runway, 442' left of centerline, 47' AGL/67' MSL. **Rwy 34**, trees 1724' from departure end of runway, 854' left of centerline, 56' AGL/74' MSL. Tree 2233' from departure end of runway, 1062' right of centerline, 79' AGL/99' MSL.

SACRAMENTO INTL

DEPARTURE PROCEDURE: **Rwy 16L**, climb via heading 164° to 800 before turning east.

SACRAMENTO MATHER

DEPARTURE PROCEDURE: **Rwys 4L, 4R**, climbing right turn direct SAC VORTAC. **Rwys 22 L, 22R** climb direct SAC VORTAC.

SALINAS, CA**SALINAS MUNI**

TAKE-OFF MINIMUMS: **Rwys 3, 14, 21, 32**, NA.

Rwy 8, CAT C, D 3600-2 or std. with a min. climb of 420' per NM to 4100. **Rwy 13**, CAT C, D 3600-2 or std. with min. climb of 500' per NM to 4000. **Rwy 31**, RVR/24, FAR 135.

DEPARTURE PROCEDURE: **Rwys 8, 13, 26**, turn right.

Rwy 31, turn left. Climb on SNS R-275 to 2000, then climbing right turn to cross SNS VORTAC at or above 3000.

SAN ANDREAS, CA

CALAVERAS CO-MAURY RASMUSSEN FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 1800-5 or std. with a min. climb of 290' per NM to 3100.

DEPARTURE PROCEDURE: **Rwy 13**, climb runway heading to 3100, then climbing right turn via LIN R-085 to LIN VORTAC. **Rwy 31**, climb via heading 311° to 3000, then climbing left turn via Linden (LIN) VORTAC R-029 to LIN VORTAC.

SAN CARLOS, CA

SAN CARLOS (SQL)

AMDT 1 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwy 12**, climbing left turn via heading 120° and SJC VOR/DME R-281 to SJC VOR/DME before proceeding on course.

NOTE: **Rwy 12**, ground 0' from DER, 148' left of centerline, 0' AGL/11' MSL. Building 2' from DER, 167' right of centerline, 27' AGL/30' MSL. Levee beginning 117' from DER, 90' left of centerline, up to 12' AGL/12' MSL. Pole 715' from DER, 294' right of centerline, 34' AGL/38' MSL. Tower 1674' from DER, 741' right of centerline, 106' AGL/111' MSL.

SAN FRANCISCO, CA

SAN FRANCISCO INTL

TAKE-OFF MINIMUMS: **Rwy 19L**, 2000-2 or std. with a min. climb of 520' per NM to 2300. **Rwy 19R**, 2000-2 or std. with a min. climb of 500' per NM to 2300.

Rwys 28L, 28R, 800-2 or std. with a min. climb of 270' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 1L, 1R, 28L, 28R**, climb runway heading to 2000. **Rwys 10L, 10R, 19L, 19R**, climbing left turn via heading 050° and SFO R-090. **All aircraft** continue climb on course.

SAN JOSE, CA

NORMAN Y MINETA SAN JOSE INTL (SJC)

AMDT 6A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 11, 12R**, 400-2½ or std. with a min. climb of 260' per NM to 500. **Rwy 12L**, 400-1¾ or std. with a min. climb of 278' per NM to 500.

DEPARTURE PROCEDURE: **Rwys 11, 12L, 12R**, climbing right turn via heading 315° to 2000, then via OAK R-135 to OAK VORTAC before proceeding on course. **Rwys 29, 30L, 30R**, Climb via heading 312° to 2000, then via OAK R-132 to OAK VORTAC before proceeding on course.

NOTE: **Rwy 11**, multiple trees beginning 1837' from DER, 230' right of centerline, up to 85' AGL/154' MSL. Crane 2.14 NM from DER, 1144' left of centerline, 305' AGL/389' MSL. **Rwy 12L**, multiple cranes, trees, and bldg beginning 286' from centerline, 69' right of centerline, up to 305' AGL/389' MSL. Multiple antennas, poles, bldg, and trees beginning 191' from DER, 48' left of centerline, up to 275' AGL/366' MSL. **Rwy 12R**, multiple antennas, bldg, cranes, poles, and trees beginning 1402' from DER, 194' left of centerline, up to 305' AGL/389' MSL. Multiple antennas, bldg, cranes, poles, and trees beginning 659' from DER, 150' right of centerline, up to 73' AGL/142' MSL. **Rwy 29**, tree 2252' from DER, 114' left of centerline, 86' AGL/125' MSL. OL on GS 821' from DER, 400' right of centerline, 35' AGL/74' MSL. **Rwy 30L**, multiple antennas, poles, towers, and trees beginning 1014' from DER, 350' left of centerline, up to 59' AGL/94' MSL. Multiple antennas, poles, and trees beginning 1279' from DER, 379' right of centerline, up to 52' AGL/88' MSL. **Rwy 30R**, multiple antennas, fences, and poles beginning 139' from DER, 40' right of centerline, up to 95' AGL/124' MSL. Multiple poles and trees beginning 185' from DER, 38' left of centerline, up to 51' AGL/85' MSL.

REID-HILLVIEW OF SANTA CLARA COUNTY

TAKE-OFF MINIMUMS: **Rwys 13L, 13R**, NA - environmental.

DEPARTURE PROCEDURE: Use DECO T DEPARTURE.

SAN MARTIN, CA

SOUTH COUNTY AIRPORT OF SANTA CLARA COUNTY

TAKE-OFF MINIMUMS: **Rwy 14**, NA. **Rwy 32**, 400-2 or std. with a min. climb of 350' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 32**, **all aircraft** climb runway heading to 2200, aircraft departing northwest via V-485, climbing left turn to 4600, heading 270° to intercept SJC R-121 (V-485) to SJC VOR/DME proceed on course; aircraft departing southeast via V-485, climbing left turn to 4600, heading 170° to intercept SJC R-121 (V485) southeast bound to GILRO Int and proceed on course.

SANTA ROSA, CA

CHARLES M. SCHULZ-SONOMA COUNTY

TAKE-OFF MINIMUMS: **Rwy 1**, std. with a min. climb of 267' per NM to 2400, or 1000-2½ for climb in visual conditions. **Rwy 32**, std. with a min. climb of 314' per NM to 2400, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 1, 32**, climbing left turn heading 164°, thence...or climb in visual conditions to cross the STS VOR/DME southwestbound at or above 1100, thence...**Rwy 14**, climbing right turn heading 250°, thence...**Rwy 19**, climb on heading 190°, thence...

...intercept and climb via STS R-202 to FREES INT, cross FREES at or above MEA for route of flight or continue climb in FREES holding pattern (SE, right turns, PYE VORTAC 334.73 inbound) to MEA for route of flight.

NOTE: **Rwy 1**, tree 739' from departure end of runway, 525' left of centerline, 40' AGL/141' MSL. **Rwy 14**, multiple trees beginning 321' from departure end of runway, 421' left of centerline up to 73' AGL/172' MSL. Tree 2113' from departure end of runway, 721' right of centerline, 77' AGL/176' MSL. **Rwy 19**, posts 39' from departure end of runway, 259' right of centerline, 7' AGL/126' MSL. Multiple trees beginning 1482' from departure end of runway, 461' right of centerline, up to 100' AGL/253' MSL. Multiple trees beginning 1666' from departure end of runway, 58' left of centerline, up to 55' AGL/257' MSL. **Rwy 32**, windsock 39' from departure end of runway, 341' left of centerline, 25' AGL/133' MSL. Multiple trees beginning 810' from departure end of runway, 87' right of centerline up to 50' AGL/205' MSL. Multiple trees beginning 2419' from departure end of runway, 167' left of centerline, up to 50' AGL/216' MSL.

SOUTH LAKE TAHOE, CA

LAKE TAHOE

TAKE-OFF MINIMUMS: **Rwy 18**, 4000-3 or std. with min. climb of 700' per NM to 9800. **Rwy 36**, 2700-3 or std. with a min. climb of 400' per NM to 8300.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 9800, then continue climbing right turn via heading 280° and SWR R-152 to SWR VOR/DME.

Rwy 36, climb runway heading to 8300, then continue climbing left turn via heading 340° and SWR R-102 to SWR VOR/DME. Then **all aircraft** proceed on course.

STOCKTON, CA

STOCKTON METROPOLITAN (SCK)

ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29R**, 300-1¼ or std. w/ min. climb of 210' per NM to 300 or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 11L**, truck on road 199' from departure end of runway, 439' left of centerline, 15' AGL/49' MSL. Obstruction light on blast fence and antenna on building beginning 294' from departure end of runway, 39' right of centerline, up to 20' AGL/50' MSL. **Rwy 29L**, antenna on building 2956' from departure end of runway, 1204' left of centerline, 90' AGL/117' MSL. Stack 5562' from departure end of runway, 1721' right of centerline, 143' AGL/171' MSL. **Rwy 29R**, obstruction light on grain elevator, 1.0 NM from departure end of runway, 1882' left of centerline, 161' AGL/191' MSL. Light tower and rod on field light tower beginning 245' from departure end of runway, 1' left of centerline up to 44' AGL/71' MSL. Stacks and light on silo beginning 256' from departure end of runway, 381' right of centerline, up to 144' AGL/171' MSL.

SUSANVILLE, CA

SUSANVILLE MUNI

DEPARTURE PROCEDURE: Use AMEDEE DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TRACY, CA

TRACY MUNI (TCY)
AMDT 3 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 700-3 or std. w/ a min. climb of 320' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 8**, climb to 3000 via heading 073° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 12**, climbing left turn to 3000 to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 26**, climbing right turn to 3000 via heading 150° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 30**, climbing right turn to 3000 via heading 150° to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

NOTE: **Rwy 8**, tree 472' from DER, 198' left of centerline, 50' AGL/194' MSL. Fence 167' from DER, 8' right of centerline, 25' AGL/176' MSL. Vehicle on road 241' from DER, 412' left of centerline, 15' AGL/183' MSL. Vehicles on roads starting 241' from DER, 7' right of centerline, up to 15' AGL/189' MSL. Poles starting 403' from DER, 204' left of centerline, up to 54' AGL/208' MSL. Poles starting 727' from DER, 49' right of centerline, up to 54' AGL/212' MSL. **Rwy 12**, trees starting 436' from DER, 251' right of centerline, up to 72' AGL/253' MSL. Conveyor 1995' from DER, 504' left of centerline, 66' AGL/270' MSL. Poles starting 832' from DER, 396' right of centerline, up to 56' AGL/240' MSL. Obstruction light on hopper 1934' from DER, 274' right of centerline, 74' AGL/255' MSL. Vehicles on road starting 133' from DER, 272' left of centerline, up to 15' AGL/206' MSL. Fence 32' from DER 405' left of centerline, 25' AGL/194' MSL. **Rwy 26**, tree 1173' from DER, 180' right of centerline, 35' AGL/234' MSL. Trees starting 1067' from DER, 125' left of centerline, up to 35' AGL/794' MSL. Vehicle on road 236' from DER, 150' left of centerline, 15' AGL/214' MSL. Fence 69' from DER, 133' left of centerline, 23' AGL/203' MSL. Rising terrain 11105' from DER, 2814' left of centerline, up to 739' MSL. **Rwy 30**, trees starting 438' from DER, 30' right of centerline, up to 35' AGL/209' MSL. Tree 1079' from DER, 82' left of centerline, 35' AGL/214' MSL. Obstruction light on hopper 985' from DER, 353' right of centerline, 72' AGL/236' MSL. Bush 195' from DER, 364' left of centerline, 25' AGL/189' MSL. Light pole 1149' from DER, 160' left of centerline, 47' AGL/211' MSL. Obstruction light on building 2289' from DER, 65' right of centerline, 74' AGL/238' MSL.

TRAVIS AFB (KSUU)

FAIRFIELD, CA 09295

All Rwy: Comply with assigned SID or ATC radar vectors.

TAKE-OFF OBSTACLES: **Rwy 3L**, 56' MSL, Terrain 10' to 46' from DER, 500' left of centerline. **Rwy 21L**, Light pole 15' AGL/83' MSL, 148' from DER, 546' left of centerline. Light pole 15' AGL/84' MSL, 346' from DER, 547' left of centerline. Light pole 15' AGL/84' MSL, 521' from DER, 548' left of centerline. Light pole 15' AGL/83' MSL, 702' from DER, 549' left of centerline. Light pole 15' AGL/84' MSL, 880' from DER, 549' left of centerline. Light pole 15' AGL/85' MSL, 926' from DER, 661' left of centerline.

DEPARTURE PROCEDURE: **Rwy 3L**, Climb on a heading between 344° CW to 137° from DER. **Rwy 3R**, Climb on a heading between 328° CW to 140° from DER.

TRUCKEE, CA

TRUCKEE-TAHOE (TRK)
AMDT 4 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10, 19**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwys 1, 28**, use TRUCK DEPARTURE.

TULARE, CA

MEFFORD FIELD

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn. **Rwy 31**, climbing left turn. **All aircraft** climb direct to VIS VOR/DME. Aircraft departing VIS R-001 CW R-140 continue climb in VIS holding pattern (E, right turns, 287° inbound) to cross VIS VOR/DME at or above 4000. All other aircraft climb on course.

UKIAH, CA

UKIAH MUNI

TAKE-OFF MINIMUMS: **Rwy 15**, NA. **Rwy 33**, 300-1 and min. climb of 350' per NM to 4000.

DEPARTURE PROCEDURE: Climb to 4000 via heading 350° then climbing left turn to 6000 direct ENI.

VACAVILLE, CA

NUT TREE (VCB)

AMDT 4 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, std. w/ min. climb of 424' per NM to 1600, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn to intercept SAC R-242 to SAC VORTAC, to 2000 before proceeding on course. **Rwy 20**, climbing left turn to intercept SAC R-242 to SAC VORTAC, to 2000 before proceeding on course, or, for climb in visual conditions: cross Nut Tree Airport eastbound at or above 1300, then climb to 2000 via SAC R-242 to SAC VORTAC, proceed on course.

NOTE: **Rwy 2**, trees beginning 222' from DER, 514' left of centerline up to 106' AGL/225' MSL. Light pole 337' from DER, 534' left of centerline, 28' AGL/147' MSL.

Rwy 20, pole 161' from DER, 500' left of centerline, 120' AGL/239' MSL. Trees beginning 269' from DER, 335' left of centerline, up to 117' AGL/236' MSL. Pole 777' from DER, 436' left of centerline, 119' AGL/238' MSL. Windsock 6' from DER, 166' right of centerline, 8' AGL/127' MSL. Fence 193' from DER, 202' right of centerline, 3' AGL/122' MSL.

VISALIA, CA

VISALIA MUNI (VIS)

AMDT 3 09239 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 230° to 2000 to intercept V23. **Rwy 30**, climbing left turn via heading 230° to 2000 to intercept V23.

NOTE: **Rwy 12**, tree 774' from DER, 618' right of centerline, 46' AGL/340' MSL. Tree 1327' from DER, 823' left of centerline, 55' AGL/349' MSL. **Rwy 30**, multiple trees beginning 179' from DER, 260' left of centerline, up to 54' AGL/343' MSL. Antenna on building 285' from DER, 250' right of centerline, 16' AGL/305' MSL. Truck on road 522' from DER, on centerline, 17' AGL/342' MSL. Railroad 690' from DER, 549' left of centerline, 23' AGL/317' MSL. Multiple trees beginning 876' to 3029' from DER, 341' to 461' left of centerline, up to 90' AGL/379' MSL. Multiple trees beginning 1886' from DER, 103' right of centerline, up to 58' AGL/347' MSL.

WATSONVILLE, CA

WATSONVILLE MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1100-2 CAT A,B, 1900-2 CAT C,D or std. with a min. climb of: CAT A,B 330' per NM to 2200; CAT C,D 460' per NM to 2400. **Rwy 8**, std. with a min. climb of 290' per NM to 2200. **Rwy 20**, std. with a min. climb of 330' per NM to 2200. **Rwy 26**, std. with a min. climb of 330' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 2** climbing right turn.

Rwy 20, climb runway heading. **Rwy 26**, climbing left turn. **All aircraft** intercept 212° bearing from PAJAR NDB and climb to cross MOVER Int at or above 2200. Climb in MOVER INT holding pattern (NE, right turns, 212° inbound) until reaching MEA or assigned altitude.

NOTE: **Rwy 2**, 40' AGL pole 17' from departure end of runway, 340' left of centerline. **Rwy 8**, 189' AGL tower 4696' from departure end of runway, 1200' right of centerline. **Rwy 20**, 106' AGL tree 954' from departure end of runway, 550' left of centerline. **Rwy 26**, 174' AGL tree 625' from departure end of runway, 580' left of centerline.

WILLITS, CA

ELLS FIELD-WILLITS MUNI

DEPARTURE PROCEDURE: **Rwy 16**, use

MENDOCINO RNAV DEPARTURE. **Rwy 34**, use

FLUEN RNAV DEPARTURE.

WILLOWS, CA

WILLOWS-GLENN COUNTY

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn. **Rwy 16**, climb runway heading. **Rwy 31, 34**, climbing left turn. **All aircraft** climb direct to MXW VORTAC. Aircraft departing MXW Vortac R-330 CW R-220, climb on course. All others continue climb in MXW holding pattern (S, 350° inbound, left turns) to depart MXW Vortac 220° CW 290°, 6500, 291° CW 330°, 5500.

NOTE: **Rwy 34**, 55' AGL pole 530' from departure end of runway, 430' right of centerline.

WOODLAND, CA

WATTS-WOODLAND (O41)

AMDT 3 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 18**, climb heading 185° and ILAR-151 to EMBER INT/ILA 48 DME before proceeding on course. **Rwy 36**, climbing left turn via heading 320° and ILAR-145 to ILA VORTAC before proceeding on course.

NOTE: **Rwy 18**, tree 2478' from DER, 283' right of centerline, 100' AGL/249' MSL. Vehicle on road 192' from DER, on centerline, 15' AGL/144' MSL. **Rwy 36**, tree 453' from DER, 69' left of centerline, 100' AGL/224' MSL. Vehicle on road 350' from DER, on centerline, 15' AGL/134' MSL. Tree 4489' from DER, 1688' left of centerline, 100' AGL/234' MSL.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude , and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME

TAKE-OFF MINIMUMS

APPLE VALLEY, CA

APPLE VALLEY

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1 or std. with a min. climb gradient of 340' per NM until 5800.

Rwy 8,18,26, NA.

DEPARTURE PROCEDURE: Use EXCON ONE RNAV DEPARTURE. **Rwy 8,18,26**, NA.

NAME

TAKE-OFF MINIMUMS

BAKERSFIELD, CA (CON'T)

MEADOWS FIELD

DEPARTURE PROCEDURE: **All aircraft** climbing right turn direct EHF VORTAC. Aircraft departing EHF R-180 CWR-350 climb on course. All others continue climb northwestbound via EHF R-324, then climbing left turn to cross EHF VORTAC at or above: EHF R-110 CWR-179 3000; EHF R-351 CW R-109 4000.

AVALON, CA

CATALINA

DEPARTURE PROCEDURE: **Rwys 4,22**, climb straight ahead to 2300 then proceed on course.

BAKERSFIELD, CA

BAKERSFIELD MUNI

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 230' per NM to 500. **Rwy 34**, 400-2 or std. with a min. climb of 400' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. **All aircraft** climb direct EHF VORTAC. Aircraft departing EHF R-120 CW R-360, climb on course, all others continue climb in EHF VORTAC holding pattern (NW, right turns, 144° inbound) to cross EHF at or above 4000, before proceeding on course.

NOTE: 120' powerlines on centerline, 2551' from departure end of runway 16.

BIG BEAR CITY, CA

BIG BEAR CITY

TAKE-OFF MINIMUMS: **Rwy 8**, 1200-2 or std. with a min. climb of 282' per NM to 8000. **Rwy 26**, NA.

DEPARTURE PROCEDURE: Use OKACO RNAV DEPARTURE. **Rwy 26**, NA.

BLYTHE, CA

BLYTHE

TAKE-OFF MINIMUMS: **Rwy 26**, 700-2 or std. with a min. climb of 330' per NM to 1100.

DEPARTURE PROCEDURE: **Rwys 8,17,35**, turn right. **Rwy 26**, turn left, climb to 1500 via heading 180° and BLH R-120, then climbing left turn direct BLH VORTAC, MCA 2000.

BORREGO SPRINGS, CA

BORREGO VALLEY (L08)

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use ZUNGU

DEPARTURE (RNAV).

BRAWLEY, CA

BRAWLEY MUNI

TAKE-OFF MINIMUMS: **Rwy 26**, NA.

DEPARTURE PROCEDURE: **Rwy 8**, turn right. Climb to 3000 via IPL R-009 to IPL VORTAC, then climb on course.

BURBANK, CA

BOB HOPE

TAKE-OFF MINIMUMS: **Rwy 8**, Cats A,B 1500-2 or std. with 480' per NM to 2400. Cats C,D 2300-2 or std. with 650' per NM to 3200. **Rwy 15**, 1300-2 or std. with 290' per NM to 2100. **Rwy 33**, 1100-2 or std. with 390' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 26**, climb direct VNY VOR/DME. **Rwys 8,15**, climbing right turn. **Rwy 33**, climbing left turn direct to VNY VOR/DME. **All aircraft** continue climb to MEA. North/westbound via V326 to GINNA Int, south/eastbound via V186 to DARTS Int.

CALIFORNIA CITY, CA

CALIFORNIA CITY MUNI

DEPARTURE PROCEDURE: Use CALIFORNIA CITY (RNAV) DEPARTURE.

CALIPATRIA, CA

CLIFF HATFIELD MEMORIAL

DEPARTURE PROCEDURE: **Rwy 8**, climb runway heading to 400', then climbing right turn to 3000 via heading 200° and IPL R-336 to IPL VORTAC. **Rwy 26**, climb runway heading to 400', then climbing left turn to 3000 via IPL R-336 to IPL VORTAC.

CAMARILLO, CA

CAMARILLO

TAKE-OFF MINIMUMS: **Rwy 8**, 1100-2 or std. with a min. climb of 250' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 8**, climb to 2500 via CMA R-061. **Rwy 26**, climbing right turn to 2500 via CMA R-265. **All aircraft** climbing left turn direct CMA VOR/DME. Continue climb on course to assigned altitude.

CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

OCEANSIDE, CA09015

Rwy 3: Diverse departures not authorized.

Rwy 21: Cross DER 35' AGL/96' MSL or above.

Diverse departure authorized between 199° to 226° CW – Civil standard with minimum obstacle climb of 500 ft/ NM to 1000'; Military standard with minimum obstacle climb of 430 ft/NM to 800'. 800-2 ceiling and vis authorized in lieu of minimum climb rate.

TAKE-OFF OBSTACLES: **Rwy 3**: Multiple trees up to 101' AGL/165' MSL, beginning 2180' from DER, 490' to 700' right of centerline. Tree 66' AGL/141' MSL, 2209' from DER, 207' left of centerline. Tree 101' AGL/164' MSL, 2286' from DER, 506' right of centerline. Antenna 276' MSL, 4525' from DER, 1233' left of centerline. Terrain 739' MSL, 4.02 NM from DER, 3721' left of centerline. **Rwy 21**: Terrain 219' MSL, 3790' from DER, 815' left of centerline. Terrain 399' MSL, 5598' from DER, 1853' left of centerline. Terrain 530' MSL, 1.5 NM from DER, 943' right of centerline. Antennas and Tower up to 50' AGL/623' MSL, beginning 1.5 NM from DER, 2390' to 2745' right of centerline. Multiple Pylons and Terrain up to 50' AGL/606' MSL, beginning 1.6 NM from DER, 1022' to 1605' right of centerline. TACAN 70' AGL/560' MSL, 1.75 NM from DER, 90' right of centerline. Trees 43' AGL/104' MSL, 552' from DER, 182' right of centerline. Trees 63' AGL/ 124' MSL, 836' from DER, 714' left of centerline. Trees 40' AGL/101' MSL, 502' from DER, 273' left of centerline.

CARLSBAD, CA

MC CLELLAN-PALOMAR

TAKE-OFF MINIMUMS: **Rwy 6**, 1400-2 or std. with a min. climb of 260' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 6**, climbing left turn to 3100 heading 245°. **Rwy 24**, climb runway heading to 2800. **All aircraft** climb on course.

CHINA LAKE NAWS (ARMITAGE FLD)(KNID)

RIDGECREST, CA 07130

Rwy 3, 8, Diverse departure not authorized.

Rwy 14, Diverse departures authorized 071° to 141° CW with minimum civil climb of 450'/NM to 6900, minimum military climb of 390'/NM to 6300. 141° to 211° CW with minimum civil climb of 310'/NM to 5400, minimum military climb of 290'/NM to 5100.

Rwy 21, Diverse departures authorized 143° to 208° CW with minimum civil climb of 310'/NM to 5900, minimum military climb of 280'/NM to 5600.

Rwy 26, Diverse departures authorized 143° to 200° CW with minimum civil climb of 300'/NM to 5900, minimum military climb of 280'/NM to 5600. Turn left on departure to assigned heading. Maximum departure speed 250 KIAS until established on assigned heading. **Rwy 32**, Diverse departures authorized 126° to 175° CW with minimum civil climb of 350'/NM to 6300, minimum military climb of 310'/NM to 5900. Turn left on departure to assigned heading. Maximum departure speed 250 KIAS until established on assigned heading.

TAKE-OFF OBSTACLES: **Rwy 14**, Tower 176' AGL/2415' MSL, 5545' from DER, 246' right of centerline.

CHINO, CA

CHINO

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 270' per NM to 4800. **Rwys 8L/R**, std. with a min. climb of 270' per NM to 4800. **Rwy 21**, Cat A/B std. with a min climb of of 290' per NM to 4800, Cat C/D std. with a min. climb of 400' per NM 4800. **Rwys 26L/R**, Cat A/B std. with a min. climb of 270' per NM to 4800, Cat C/D std. with a min. climb of 410' per NM to 4800.

DEPARTURE PROCEDURE: **Rwys 3, 8L/R**, climbing right turn direct PDZ VORTAC. **Rwys 21, 26L/R**, climbing left turn direct PDZ VORTAC. **All aircraft** climb in PDZ VORTAC holding pattern (Hold E, right turns, 258° inbound) to the appropriate MEA.

NOTE: 108' AGL trees 1200' from departure end of runway 3, 600' left of centerline.

CORONA, CA

CORONA MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, 1000-2 or std. with a min. climb of 310' per NM to 1700. **Rwy 25**, 600-2 or std. with a min. climb of 280' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn. **Rwy 25**, climbing right turn. **All aircraft** continue climb direct to PDZ VORTAC. Aircraft departing PDZ R-091 CWR-140 and R-231 CWR-280 climb on course. All others continue climb in PDZ VORTAC holding pattern (Hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-141 CWR-230 4000, R-281 CWR-090 6700.

DAGGETT, CA

BARSTOW-DAGGETT (DAG)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std w/ min. climb of 401' per NM to 4400 or 3500-3 for climb in visual conditions. **Rwy 26**, std. w/ min. climb of 432' per NM to 4600 or 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb direct DAG VORTAC. Thence...**Rwy 8**, climbing left turn direct DAG VORTAC. Thence...**Rwys 22, 26**, climbing right turn heading 090° and DAG VORTAC R-224 to DAG VORTAC. Thence...

...climb in DAG VORTAC holding pattern (NE, left turns, 224° inbound) to cross DAG VORTAC at or above 7500 before proceeding on course, or for climb in visual conditions: cross Barstow-Daggett airport Northeastbound at or above 5300, then climb to 7500 via DAG R-224 to DAG VORTAC before proceeding on course.

NOTE: **Rwy 4**, multiple bushes, terrain, and AG equipment beginning at DER, from 295' left and 286' right of centerline, up to 40' AGL/1928' MSL. **Rwy 8**, multiple trees and bushes beginning 113' from DER, from 343' left and 259' right of centerline, up to 40' AGL/ 1924' MSL. **Rwy 22**, multiple terrain beginning at 5668' from DER, from 2019' right and 2019' left of centerline, up to 3895' MSL. **Rwy 26**, road beginning 360' from DER, from 596' left and 596' right of centerline, up to 15' AGL/1946' MSL. Railroad beginning 953' from DER, from 755' left and 755' right of centerline, up to 23' AGL/ 1958' MSL.

DELANO, CA

DELANO MUNI (DLO)

AMDT 3A 08129 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32**, 400-1 or std. with a min. climb rate of 390' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 14**, Climb via heading 140° and EHF VORTAC R-324 to 3000 before proceeding on course. **Rwy 32**, climb via heading 320° and EHF VORTAC R-324 to 3000 before proceeding on course.

NOTE: 65' AGL tree 600' from departure end of runway, 500' left of centerline runway 14.

EDWARDS AF AUX NORTH BASE (9L2)

EDWARDS, CA

Rwy 6-24, climb on course, cross 15 NM from ARP at or above 4500.

EDWARDS AFB (KEDW)

EDWARDS, CA08269

Rwy 4L/R, Radar Required, Climb 340/NM to 5500, track inbound on EDWR-223 to EDW VORTAC, then out EDWR-043. Climb as instructed, expect radar vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500. **Rwy 22L/R**, Radar and DME Required. CAT ABC track outbound EDWR-223. At 12 DME turn right heading 020, intercept EDWR-247 to EDW VORTAC. Climb as instructed, expect radar vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500. CAT DE track outbound EDWR-223. At 12 DME turn right, intercept EDWR-247 to EDW VORTAC. Climb as instructed, expect radar vectors after passing 4500 or climb on course, cross 15 NM from ARP at or above 4500.

EL CENTRO NAF (KNJK)

EL CENTRO, CA09127

Diverse Departures not authorized.

DEPARTURE PROCEDURE: **All Rwys**, use published departure procedure or if ceiling and visibility is below 2100-2½, make climbing turn direct IPL VORTAC within 3.6 DME of NJK TACAN and expect radar vectors to join assigned route. Expect filed altitude 10 minutes after departure. Cross IPL VORTAC at or below 7000.

EL MONTE, CA

EL MONTE

TAKE-OFF MINIMUMS: **Rwy 1**, 600-1 or std. with a min. climb of 280' per NM to 1000. **Rwy 19**, 1200-2 or std. with min. climb of 230' per NM to 1900.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn. **Rwy 19**, climb runway heading to 800 then climbing left turn. **All aircraft** intercept PDZ R-278 to PDZ VORTAC. Aircraft departing PDZ R-091 CWR-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 6700.



09351

FALLBROOK, CA

FALLBROOK COMMUNITY AIRPARK

TAKE-OFF MINIMUMS: **Rwy 36**, CAT A,B, 700-2 or std. with a min. climb of 340' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 1200, then climbing left turn via heading 160° to join V208-458. Aircraft westbound proceed on course. Aircraft eastbound V208-458 proceed to VISTA Int and climb in holding pattern (E, left turns, 263° inbound) to 5000 before proceeding on course. **Rwy 36**, climb runway heading to 1500, then climbing right turn to intercept OCN VORTAC R-027 to TANNR Int before proceeding on course.

FULLERTON, CA

FULLERTON MUNI (FUL)

AMDT 4A 08185 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, std. with a min. climb of 230' per NM to 900, or 1100-2½ for climb in visual conditions. **Rwy 24**, std. with a min. climb of 320' per NM to 2300, or 1100-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn to 2300 direct SLI VORTAC, or for climb in visual conditions: cross Fullerton Airport southwest bound at or above 1100, then climb to 2300 via SLIR-020 to SLI VORTAC. **Rwy 24**, climbing left turn to 2300 direct SLI VORTAC, or for climb in visual conditions: cross Fullerton Airport southwest bound at or above 1100, then climb to 2300 via SLIR-020 to SLI VORTAC.

NOTE: **Rwy 6**, obstruction light 109' from departure end of runway, 117' left of centerline, 22' AGL/118' MSL. Train 122' from departure end of runway, 106' left of centerline, 23' AGL/121' MSL. Multiple poles 58' to 1003' from threshold centerline to 373' right of centerline, 39' AGL/135' MSL. Hopper on building 977' from departure end of runway, 468' left of centerline, 36' AGL/132' MSL. Light pole 1247' from threshold, 143' left of centerline, 35' AGL/131' MSL. Tree 1463' from departure end of runway, 35' left of centerline, 72' AGL/168' MSL. Obstruction light 1620' from departure end of runway, 318' right of centerline, 50' AGL/146' MSL. Pole 2234' from departure end of runway, 754' left of centerline, 78' AGL/174' MSL. Pole 3597' from departure end of runway, 793' left of centerline, 102' AGL/198' MSL. Building 3208' from departure end of runway, 820' right of centerline, 112' AGL/217' MSL. Tower 1 NM from departure end of runway, 1937' left of centerline, 94' AGL/267' MSL. Pole 1.6 NM from departure end of runway, 1.5 NM left of centerline, 90' AGL/575' MSL. Tower 1.1 NM from departure end of runway, 1.7 NM left of centerline, 130' AGL/729' MSL. Tower 2 NM northwest of departure end of runway, 760' AGL/820' MSL. **Rwy 24**, road 82' from departure end of runway, on centerline, 15' AGL/99' MSL. Light 85' from departure end of runway, 260' right of centerline, 25' AGL/110' MSL. Light 217' from departure end of runway, 320' left of centerline, 104' AGL/122' MSL. Antenna on building 272' from departure end of runway, 278' left of centerline, 31' AGL/116' MSL. Trees 253' from departure end of runway, 228' right of centerline, 57' AGL/142' MSL. Obstruction light 400' from departure end of runway, on centerline, 18' AGL/103' MSL. Trees 1336' to 2492' from departure end of runway, 160' left of centerline to 419' right of centerline, 70' AGL/155' MSL. Tower 1.3 NM from departure end of runway, 5034' right of centerline, 684' AGL/750' MSL.

HAWTHORNE, CA

JACK NORTROP FIELD/HAWTHORNE MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, 300-2 or std. with a min. climb of 363' per NM to 500. **Rwy 25**, 200-1 or std. w/ a min. climb of 289' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 7**, turn right, climb via heading 240°. **Rwy 25**, turn left, climb via heading 210°. All runways climb to 3000 via LAX R-170 to LIMBO Int.

NOTE: **Rwy 7**, multiple transmission towers beginning 5428' from departure end of runway, 205' left of centerline, up to 247' AGL/307' MSL. Antenna on building 1.1 NM from departure end of runway, 2020' left of centerline, 244' AGL/305' MSL. Multiple trees, poles, light poles and buildings beginning 130' from departure end of runway, 12' left of centerline, up to 266' AGL/327' MSL. Multiple trees, poles, signs and OL lights beginning 73' from departure end of runway, 90' right of centerline, up to 184' AGL/245' MSL. **Rwy 25**, OL light on tank 4471' from departure end of runway, 1311' left of centerline, 227' MSL. Multiple antennas on buildings, trees and poles 91' from departure end of runway, 64' left of centerline, up to 93' AGL/154' MSL. Multiple trees and poles beginning 309' from departure end of runway, 162' right of centerline, up to 84' AGL/149' MSL.

HEMET, CA

HEMET-RYAN

TAKE-OFF MINIMUMS: **Rwys 4,22**, N/A-restricted to glider operations. **Rwy 5**, std. with a min. climb of 526' per NM to 5200, or 1400-2½ for climb in visual conditions. **Rwy 23**, std. with a min. climb of 414' per NM to 3200, or 1400-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via HDF VOR R-084 to HDF VOR, thence...or climb in visual conditions to cross Hemet-Ryan Airport westbound at or above 2900, then climb via HDF VOR R-093 to HDF VOR, thence... **Rwy 23**, climbing right turn via HDF VOR R-108 to HDF VOR, thence...or climb in visual conditions to cross Hemet-Ryan Airport westbound at or above 2900, then climb via HDF VOR R-093 to HDF VOR, thence...

....climb in HDF VOR holding pattern, (SE, right turns, 315° inbound), to cross HDF VOR at or above MEA/ MCA for direction of flight.

NOTE: **Rwy 5**, road and vehicle 200' from departure end of runway, on centerline, 15' AGL/1534' MSL. **Rwy 23**, road and vehicle 394' from departure end of runway, 545' left of centerline, 15' AGL/1524' MSL. Tree 1.4 NM from departure end of runway, 2613' right of centerline, 100' AGL/1979' MSL.

09351



IMPERIAL, CA

IMPERIAL COUNTY (IPL)

AMDT 2A 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2¼ or std. w/ min. climb of 220' per NM to 400, or alternatively, with standard take-off minimums and a normal 200' per NM climb gradient, take-off must occur no later than 1800' prior to DER.

DEPARTURE PROCEDURE: **Rwys 8, 32**, turn right.

Rwy 14, climb runway heading. **Rwy 26**, turn left.

All aircraft climb direct IPL VORTAC.

NOTE: **Rwy 8**, multiple VASI beginning 687' from DER, 31' right of centerline, up to 5' AGL/-52' MSL. Antenna on building 1033' from DER, 703' left of centerline, 45' AGL/-12' MSL. Light on pole, 1984' from DER, 386' left of centerline, 55 ft AGL/-2' MSL. **Rwy 14**, building 1770' from DER, 38' left of centerline, 45' AGL/-11' MSL. Road 430' from DER, 291' left of centerline, 15' AGL/-41' MSL. Sign 1733' from DER, 35' left of centerline, 45' AGL/-11' MSL. Pole 1457' from DER, 393' right of centerline, 37' AGL/-19' MSL. **Rwy 26**, multiple obstruction lights on poles beginning 1509' from DER, 15' left of centerline, up to 60' AGL/3' MSL. Obstruction light on pole 1511' from DER, 459' right of centerline, 59' AGL/2' MSL. **Rwy 32**, obstruction light on tank, 823' from DER, 574' right of centerline 110' AGL/53' MSL. Numerous tanks beginning 3580' from DER, 296' right of centerline, up to 109' AGL/53' MSL. Tree 373' from DER, 387' right of centerline, 80' AGL/-24' MSL. Multiple lights beginning 243' from DER, 361' right of centerline, up to 28' AGL/-29' MSL. Pole 657' from DER, 370' left of centerline, 27' AGL/-30' MSL. Road 191' from DER, 237' left of centerline, 13' AGL/-44' MSL.

IMPERIAL BEACH NOLF (REAM FIELD) (KNRS)

IMPERIAL BEACH, CA. 09043

Rwy 8,9,26 departures not authorized.

Rwy 27: Diverse departure not authorized.

Departures authorized for military rotorcraft only. Climb to 2000 via heading 272° to intercept NRS TACAN R-270. Cross NRS 1.5 DME at or above 800. Minimum ATC climb rate of 600'/NM til 800 with take-off occurring NLT 3038' prior to DER or cross DER at or above 320.

INYOKERN, CA

INYOKERN

TAKE-OFF MINIMUMS: **Rwys 2, 10, 15, 28, 33**, NA.

DEPARTURE PROCEDURE: **Rwy 20**, use LAKE

HUGHES RNAV DEPARTURE.

LA VERNE, CA

BRACKETT FIELD

TAKE-OFF MINIMUMS: **Rwys 26L, 26R**, 300-1.

DEPARTURE PROCEDURE: **Rwys 8L, 8R**, climb via heading 079° to 1500, then climbing right turn via heading 195° and POM R-164 to PRADO Int. **Rwys 26L, 26R**, climb via heading 259° to 1400, then climbing left turn via heading 130° and POM R-164 to PRADO Int.

Aircraft departing PRADO Int heading 141° clockwise 290° climb on course. All others climb in PRADO Int holding pattern (hold north, right turn, 164° inbound) to depart PRADO Int at or above: 291° clockwise 340°, 4500; 341° clockwise 050°, 6800; 051° clockwise 090°, 5200; 091° clockwise 140°, 4200.

NOTE: **Rwy 26L**, multiple trees and antenna beginning 370' from departure end of runway, 269' left of centerline up to 100' AGL/1116' MSL. Multiple trees beginning 896' from departure end of runway, 70' right of centerline, up to 100' AGL/1010' MSL. Multiple buildings and tanks beginning 2732' from departure end of runway, 416' right of centerline, up to 50' AGL/1230' MSL. **Rwy 26R**, hangar 241' from departure end of runway, 326' right of centerline, 35' AGL/994' MSL. Multiple trees beginning 1473' from departure end of runway, 807' left of centerline, up to 100' AGL/1116' MSL. Tank and trees beginning 2510' from departure end of runway, 503' right of centerline, up to 100' AGL/ 1289' MSL.

LANCASTER, CA

GENERAL WILLIAM J. FOX AIRFIELD (WJF)

ORIG-A 09267 (FAA)

DEPARTURE PROCEDURE: Climb southeastbound on R-299 to PMD VORTAC. Depart PMD at published MCA for direction of flight.

NOTE: **Rwy 6**, trees beginning 1170' from DER, 590' right of centerline, up to 44' AGL/2374' MSL.

LOMPOC, CA

LOMPOC

TAKE-OFF MINIMUMS: **Rwy 7**, std. with a min. climb of 425' per NM to 1400, or 1000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 7**, climbing right turn. For climb in visual conditions: cross Lompoc Airport eastbound at or above 1200 MSL. **Rwy 25**, turn right heading 130°.

All aircraft climb to 6000 via GVO R-278 to GVO VORTAC. Aircraft departing GVO R-120 CW R-020 climb on course, all others climb in GVO holding pattern (NW, right turns, 127° inbound) to depart GVO VORTAC at or above MEA for route of flight.

NOTE: **Rwy 7**, trees 3583' from departure end of runway, 2.3 NM right of centerline, 50' AGL/889' MSL. Trees 1.2 NM from departure end of runway, 2.2 NM right of centerline, 50' AGL/791' MSL. Trees 1.6 NM from departure end of runway, 1.9 NM right of centerline, 50' AGL/743' MSL.

LONG BEACH, CA

LONG BEACH (DAUGHERTY FIELD)

TAKE-OFF MINIMUMS: **Rwy 16L**, 400-1½ or std. w/ min climb of 321' per NM to 500. **Rwy 16R**, 400-1 or std. w/ min. climb of 518' per NM to 500. **Rwy 25L**, std. w/ min. climb of 225' per NM to 2300. **Rwy 25R**, std. w/ min. climb of 223' per NM to 2200. **Rwys 34L,34R**, NA- Environmental and noise abatement.

DEPARTURE PROCEDURE: **Rwys 7L,7R**, climb heading 076° to 800, then climbing right turn direct SLI VORTAC and SLI R-210 to PADDR INT. **Rwy 12**, climb heading 121° to intercept SLI VORTAC R-210 to PADDR INT. **Rwys 16L,16R**, climb heading 166° to 800, then climbing right turn heading 180° and SLI VORTAC R-210 to PADDR INT. **Rwys 25L,25R**, climb heading 256° to 800, then climbing left turn heading 200° and LAX VORTAC R-145 to PADDR INT. **Rwy 30**, climb heading 301° to 800, then climbing left turn heading 200° and LAX VORTAC R-145 to PADDR INT.

NOTE: **Rwy 7L**, sign 287' from DER, 173' left of centerline, 8' AGL/45' MSL. Vehicle on road 320' from DER, 248' left of centerline, 13' AGL/50' MSL. Light 468' from DER, 307' left of centerline, 19' AGL/56' MSL. Tree 1326' from DER, 75' left of centerline, 60' AGL/97' MSL. Trees beginning 579' from DER, 7' right of centerline, up to 71' AGL/108' MSL. Hangar 347' from DER, 416' right of centerline, 13' AGL/50' MSL. **Rwy 7R**, hangar 260' from DER, 498' left of centerline, 31' AGL/64' MSL. Multiple trees beginning 1408' from DER, 1' left of centerline, up to 64' AGL/94' MSL. Light 459' from DER, 581' right of centerline, 14' AGL/44' MSL. Antenna obstruction light 1473' from DER, 822' right of centerline, 88' AGL/115' MSL. **Rwy 12**, multiple trees beginning 1431' from DER, 469' left of centerline, up to 66' AGL/86' MSL. Light 1127' from DER, 606' left of centerline, 36' AGL/56' MSL. Multiple trees beginning 970' from DER, 392' right of centerline, up to 64' AGL/87' MSL. Spire 3095' from DER, 1183' right of centerline, 92' AGL/115' MSL. **Rwy 16L**, terrain beginning 155' from DER, 152' left of centerline, up to 40' MSL. Multiple trees beginning 427' from DER, 136' left of centerline, up to 32' AGL/109' MSL. Multiple lights, buildings and lights on buildings beginning 285' from DER, 256' left of centerline, up to 113' AGL/159' MSL. Multiple flag poles 1165' from DER, 8' left of centerline, up to 60' AGL/116' MSL. Rising terrain beginning 156' from DER, 100' right of centerline 40' MSL. Multiple trees beginning 296' from DER, 149' right of centerline, up to 38' AGL/218' MSL. Multiple buildings beginning 2057' from DER, 253' right of centerline, up to 30' AGL/91' MSL. **Rwy 16R**, rising terrain beginning 29' from DER on centerline, up to 309' MSL. Multiple trees beginning 835' from DER, 46' left of centerline, up to 112' AGL/156' MSL. Sign 1453' from DER, 139' left of centerline, 50' AGL/94' MSL. Pole 3034' from DER, 302' left of centerline, 91' AGL/135' MSL. Light on tank 4079' from DER, 114' left of centerline, 108' AGL/152' MSL. Multiple tower antennas beginning 8017' from DER, 1913' left of centerline, up to 291' AGL/335' MSL. Antenna on hangar 352' from DER, 399' right of centerline, 38' AGL/82' MSL. Multiple trees beginning 787' from DER, 319' right of centerline, 32' AGL/293' MSL. Multiple poles beginning 2028' from DER, 295' right of centerline, up to 241' AGL/248' MSL. Chimney on building, 4661' from DER, 1553' right of centerline, 33' AGL/353' MSL.

LONG BEACH (DAUGHERTY FIELD) (CON'T)

Rwy 25L, multiple trees beginning 2407' from DER, 111' left of centerline, up to 38' AGL/117' MSL. Obstruction light on tower 2493' from DER, 503' left of centerline, 69' AGL/152' MSL. Rising terrain beginning 110' on centerline, up to 66' MSL. Obstruction light rod on hangar, 1149' from DER, 793' right of centerline, 109' AGL/169' MSL. Antenna 3821' from DER, 439' right of centerline, 66' AGL/155' MSL. **Rwy 25R**, Ford sign beginning 551' from DER, 27' right of centerline, up to 100' AGL/159' MSL. Railroad beginning 202' from DER, 3' left of centerline, 66' AGL/155' MSL. Multiple lights and light poles beginning 321' from DER, 111' left of centerline, up to 32' AGL/92' MSL. Sign 1142' from DER, 33' left of centerline, 35' AGL/104' MSL. Multiple trees beginning 1142' from DER, 9' left of centerline, up to 67' AGL/146' MSL. Multiple obstruction lights beginning 67' from DER, 59' right of centerline, up to 202' AGL/260' MSL. Multiple trees beginning 1246' from DER, 1' right of centerline, up to 87' AGL/145' MSL. **Rwy 30**, railroad beginning 647' from DER, on centerline, up to 27' AGL/91' MSL. Multiple antennas, rods, vents and lights on buildings beginning 356' from DER, 289' left of centerline, up to 27' AGL/87' MSL. Multiple poles beginning 2061' from DER, 312' left of centerline, up to 51' AGL/124' MSL. Railroad beginning 207' from DER, 485' right of centerline, up to 25' AGL/ 81' MSL. Multiple obstruction lights and poles beginning 632' from DER, 240' right of centerline, up to 66' AGL/142' MSL. Multiple trees beginning 1701' from DER, 136' right of centerline, up to 73' AGL/146' MSL. Building 2617' from DER, 802' right of centerline, 63' AGL/136' MSL.

LOS ALAMITOS AAF (KSLI)

LOS ALAMITOS, CA

..... **Rwy 22L/R**, 300-1*
 *Or standard with minimum climb of 230/NM to 400.

Rwy 4L/R climbing right turn; **Rwy 22L/R** climbing left turn. All aircraft climb direct SLI VORTAC. Aircraft departing SLI VORTAC R-040 CW 345 climb on course. All others continue climb via the SLI R-171 southbound then climbing right turn direct SLI VORTAC to cross at or above 4600'.

LOS ANGELES, CA

LOS ANGELES INTL (LAX)

AMDT 12 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6R**, 200-1¼ or std. with a min. climb of 275' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 6L/R, 7L/R**, climb to 2000 heading 070°, then climbing right turn, thence... **Rwys 24L/R**, climb to 2000 heading 250°, then climbing left turn, thence... **Rwys 25L/R**, turbojet climb to 2000 heading 250°, then climbing left turn, thence...non-turbojet climb to 2000 heading 250°, at the SMO R-154 turn left heading 200°, thence...

...climb direct SLI VORTAC, then climb on course.

NOTE: **Rwy 6L**, buildings and signs beginning 1693' from departure end of runway, 339' left of centerline, up to 50' AGL/201' MSL. **Rwy 6R**, antenna on building 560' from departure end of runway, 479' right of centerline, 18' AGL/127' MSL, obstruction light on building 5550' from departure end of runway, 1791' right of centerline, 202' AGL/306' MSL, obstruction light on sign and sign beginning 1866' from departure end of runway, 920' left of centerline, up to 49' AGL/161' MSL. **Rwy 7L**, obstruction light on blast fence 168' from departure end of runway, 33' left of centerline, 14' AGL/106' MSL, poles beginning 1290' from departure end of runway, 505' left of centerline, up to 55' AGL/147' MSL, antenna on building 1576' from departure end of runway, 315' left of centerline, 55' AGL/147' MSL, sign and railroad beginning 351' from departure end of runway, 10' left of centerline, up to 29' AGL/124' MSL, railroad 275' from departure end of runway, 500' right of centerline, 23' AGL/115' MSL, approach light and obstruction light on LOC beginning 979' from departure end of runway, on runway centerline, up to 27' AGL/119' MSL. **Rwy 7R**, trees and building beginning 790' from departure end of runway, 606' right of centerline, up to 58' AGL/157' MSL.

Rwy 24L, bush 956' from departure end of runway, 600' left of centerline, 40' AGL/148' MSL. Light poles beginning 273' from departure end of runway, 425' left of centerline, up to 10' AGL/120' MSL, antenna on pole 1357' from departure end of runway, 286' right of centerline, 36' AGL/144' MSL, light poles and bushes beginning 239' from departure end of runway, 321' right of centerline, up to 8' AGL/116' MSL. **Rwy 24R**, obstruction light on glideslope 212' from departure end of runway, 399' left of centerline, 39' AGL/151' MSL. **Rwy 25L**, tree and pole beginning 2366' from departure end of runway, 764' left of centerline, up to 80' AGL/197' MSL, transmission towers beginning 2800' from departure end of runway, 926' left of centerline, up to 71' AGL/192' MSL, bush 133' from departure end of runway, 397' left of centerline, 4' AGL/123' MSL.

WHITEMAN

TAKE-OFF MINIMUMS: **Rwys 12, 30**, 2900-2 or std. with a min. climb of 350' per NM to 4300.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct VNY VOR/DME. **Rwy 30**, climbing left turn heading 260°. **All aircraft** climb to 4500 via VNY R-325, then climbing left turn direct VNY VOR/DME.

MARCH ARB (KRIV)

RIVERSIDE, CA AMDT 2, 09323

Rwy 32, 1200-3*

* Or standard with a minimum climb rate of 240 ft/NM to 3100'.

Rwy 14,

Diverse Departure:

Rwy 14 appropriate departure procedure Standard, proceed direct HDF VOR, then right turn to sector diverse departure between 155° clockwise to 181° only. Max airspeed 250 KIAS or

VCOA route SKYES intersection: 2300-3 for Climb in Visual Conditions within 6.5 NM of March ARB, cross March ARB at or above 3700' MSL, then climb and maintain 6000 direct HDF VOR, then via HDF R-153 to HDF R-153/PDZ R-130, direct SKYES INT. Do not exceed 250 KIAS until passing SKYES. Aircraft shall advise ATC prior to executing VCOA.

Rwy 32,

Diverse Departure:

Rwy 32 appropriate departure procedure. Turn left to sector diverse departure between 150° to 135° counter-clockwise only. Maximum 250 KIAS or

VCOA route SKYES intersection: 2300-3 for Climb in Visual Conditions within 6.5 NM of March ARB, cross March ARB at or above 3700' MSL, then climb and maintain 6000 direct HDF VOR, then via HDF R-153 to HDF R-153/PDZ R-130, direct SKYES INT. Do not exceed 250 KIAS until passing SKYES. Aircraft shall advise ATC prior to executing VCOA.

TAKE-OFF OBSTACLES: **Rwy 14**, Tree 150' AGL/1630' MSL, 2248' from DER, 1000' right of centerline. Tree 150' AGL/1630' MSL, 1920' from DER, 1000' right of centerline. Tree 150' AGL/1630' MSL, 1789' from DER, 1000' right of centerline. Tree 150' AGL/1622' MSL, 2278' from DER, 1002' left of centerline. Aircraft 65' AGL/1550' MSL, 28' inward of DER, 542' left of centerline. Aircraft 30' AGL/1516' MSL, 31' inward of DER, 298' left of centerline. Use caution when departing Rwy 14, rapid rising terrain within 3.5 NM SE of March ARB. **Rwy 32**, Aircraft 65' AGL/1600' MSL, 30' from DER, 526' right of centerline. Aircraft 30' AGL/1565' MSL, 5' from DER, 282' right of centerline.

MIRAMAR MCAS

(MITSCHER FLD) (KNKX), CA. 09351

Rwy 6L/R 340° through 150° CW-Civil, standard with minimum climb of 300'/NM to 7600; Military, standard with minimum climb of 280'/NM to 7600. **Rwy 24L/R** 340° through 100° CW-Civil standard with minimum climb of 290'/NM to 7600; Military, standard with minimum climb of 270'/NM to 7600.

TAKE-OFF OBSTACLES: **Rwy 6L**, Bldg 539' MSL, 2381' from DER, 1084' left of centerline. **Rwy 24R**, Pylon 473' MSL, 1879' from DER, 673' left of centerline.

MOJAVE, CA

MOJAVE (MHV)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,8,12**, NA-restricted airspace. **Rwys 22, 26**, std. with a min. climb of 415' per NM to 6800 or 4200-3 for climb in visual conditions. **Rwy 30**, std. with a min. climb of 485' per NM to 6300 or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 22**, climb to 8000 via heading 218° and LHS R-023 to LHS VORTAC or for climb in visual conditions: cross Mojave Airport southwest bound at or above 6800, then climb to 8000 via LHS R-023 to LHS VORTAC. **Rwys 26, 30**, climbing left turn to 8000 via heading 190° and LHS R-023 to LHS VORTAC or for climb in visual conditions: cross Mojave Airport southwest bound at or above 6800, then climb to 8000 via LHS R-023 to LHS VORTAC.

NOTE: **Rwy 30**, vehicle on road 3181' from departure end of runway, 22' right of centerline, 17' AGL/2896' MSL. Train 1441' from departure end of runway, 351' right of centerline, 23' AGL/2882' MSL.

MURRIETA/TEMECULA, CA

FRENCH VALLEY

TAKE-OFF MINIMUMS: **Rwy 18**, NA. **Rwy 36**, 700-2 or std. with a min. climb of 340' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 36**, climb runway heading to 2200, then climbing left turn via HDF R-145 to HDF VOR. Aircraft departing HDF VOR 065° CW 352° climb on course. Aircraft departing northeastbound, climb in HDF holding pattern, (SE, right turns, 315° inbound) to depart HDF VOR at or above: 353° CW 054°, 6800; 055° CW 064°, 5800; before proceeding on course.

NEEDLES, CA

NEEDLES

DEPARTURE PROCEDURE: **Rwys 2, 29**, turn right. **Rwy 20**, turn left. **All aircraft** climb direct EED VORTAC, then continue climb on curse. Departures on V12, J6, and J8 cross EED VORTAC at or above 2600.

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

SAN DIEGO, CA. 09127

Rwy 11, diverse departures authorized 129° CW 182°. Make immediate right turn to assigned heading within 1.4 DME of NZY TACAN to avoid over flying the City of Coronado.

Rwy 18, diverse departures authorized 129° CW 175°.

Rwy 29, diverse departures not authorized. Use published DP or 800-2¼ for climb in visual conditions via immediate climbing left turn to cross North Island airport at or above 800' MSL, during visual climb do not overfly Point Loma and remain south of Rwy 11-29, then climb to 2000 via heading 175°, expect radar vectors to join assigned route. Cross DER at or above 35' AGL (54' MSL).

Rwy 36, departure not authorized.

TAKE-OFF OBSTACLES:

Rwy 11, Trees 52' AGL/78' MSL, 108' from DER, 336' right of centerline; Trees 30' AGL/54' MSL, 994' from DER, 733' left of centerline.

Rwy 29, Shipping Channel accommodating vessels up to 200' AGL (206' MSL with tidal range), starting 2577' from DER on centerline. Twin Towers 145' AGL/534' MSL, 1.4 NM from DER, 2645' left of centerline; Tower 479' MSL, 1.5 NM from DER, 1969' left of centerline; Tower 100' AGL/ 455' MSL, 1.5 NM from DER, 2054' left of centerline; Tower 120' AGL/544' MSL, 1139' from DER, 2.1 NM left of centerline.

OCEANSIDE, CA

OCEANSIDE MUNI

TAKE-OFF MINIMUMS: **Rwy 6**, 400-1 or std. with a min. climb of 320' per NM to 500. **Rwy 24**, 300-1 or std. with a min. climb of 670' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb via heading 235° to 1500, then climbing right turn direct OCN VORTAC.

ONTARIO, CA

ONTARIO INTL

TAKE-OFF MINIMUMS: **Rwys 8L,8R**, CAT C, D 1000-2 or std. with a min. climb of 220' per NM to 2200.

DEPARTURE PROCEDURE: **Rwys 8L,8R**, climbing right turn. **Rwys 26L,26R**, climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CWR-140 and R-231 CWR-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CW R-090, 6700; R-141 CWR-230, 4000.

OXNARD, CA

OXNARD

TAKE-OFF MINIMUMS: **Rwy 7**, 2100-5 or std. with a min. climb of 290' per NM to 2600.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn. **Rwy 25**, climb runway heading. **All aircraft** continue climb to 6000 (or assigned altitude) via CMA R-249 to SQUID Int. Aircraft departing SQUID Int 040° CW 300° climb on course. All others continue climb in SQUID holding pattern (Hold W, right turns, 069° inbound) to cross SQUID INT at or above 2300.

NOTE: **Rwy 7**, 59' AGL tree 527' from departure end of runway, 501' left of centerline.

PALM SPRINGS, CA

BERMUDA DUNES

TAKE-OFF MINIMUMS: **Rwy 28**, CAT A,B 1200-2 or std. with a min. climb of 450' per NM to 1400. CAT C,D 2100-2 or std. with a min. climb of 490' per NM to 3400.

DEPARTURE PROCEDURE: **Rwy 10**, climbing right turn heading 150°. **Rwy 28**, climbing left turn heading 090°. **All aircraft** continue climb via TRM R-304 to TRM VORTAC. Aircraft departing TRM R-095 CW R-165 climb on course. All others continue climb in TRM holding pattern (E, right turns, 289° inbound) to cross TRM VORTAC at or above: R-166 CW 290°, 6500; 291° CWR-310, 4900; R-311 CW 094°, 3200.

JACQUELINE COCHRAN RGNL

TAKE-OFF MINIMUMS: **Rwy 30**, CAT C,D 3400-2 or std. with a min. climb of 410' per NM to 3700. **Rwy 35**, CAT A,B 400-2 or std. with a min. climb of 210' per NM to 400. CAT C,D 3400-2 or std. with a min. climb of 410' per NM to 3700.

DEPARTURE PROCEDURE: **Rwys 12,17**, climbing left turn. **Rwys 30, 35**, climbing right turn heading 150°. Aircraft departing TRM R-101 CW R-139, climb on course. All others continue climb east-bound via the TRM R-109 then climbing right turn to cross TRM VORTAC at or above: R-304 CW R-100, 4000; R-140 CW R-199, 4700; R-200 CW R-303, 6600.

PALM SPRINGS, CA (CON'T)

PALM SPRINGS INTL (PSP)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13L**, minimum climb of 440' per NM to 2300' or 5900-3 for climb in visual conditions. **Rwy 13R**, minimum climb of 422' per NM to 2300' or 5900-3 for climb in visual conditions. **Rwy 31L**, minimum climb of 386' per NM to 4500' or 5900-3 for climb in visual conditions. **Rwy 31R**, minimum climb of 405' per NM to 4500' or 5900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing left turn heading 090° to intercept TRM R-304 to TRM VORTAC or for climb in visual conditions cross Palm Springs Intl airport at or above 6300 then direct PSP VORTAC thence ... **Rwy's 31L/R**, climbing right turn direct PSP VORTAC thence ..., or for climb in visual conditions cross Palm Springs Intl airport at or above 6300 then direct PSP VORTAC thence ...

... via PSP R-124 and TRM R-304 to TRM VORTAC. **All Rwys** if not at MEA/MCA at TRM VORTAC, climb in TRM holding pattern (hold E, right turns, 289° inbound) until reaching MEA/MCA for assigned route of flight.

NOTE: **Rwy 13L**, trees beginning 299' from departure end of runway, 530' left of centerline, up to 66' AGL/465' MSL. HGR 935' from departure end of runway, 552' left of centerline, 31' AGL/440' MSL. **Rwy 13R**, trees beginning 1170' from departure end of runway, 239' right of centerline, up to 100' AGL/599' MSL. Poles beginning 815' from departure end of runway, 209' right of centerline, up to 44' AGL/433' MSL. Light 843' from departure end of runway, 441' right of centerline, 38' AGL/427' MSL. Antenna 1642' from departure end of runway, 26' right of centerline, 53' AGL/442' MSL. **Rwy 31L**, poles beginning 1641' from departure end of runway, 125' right of centerline, up to 31' AGL/550' MSL. Towers beginning 2418' from departure end of runway, 402' left of centerline, up to 59' AGL/560' MSL. Tree 3016' from departure end of runway, 66' right of centerline, 43' AGL/562' MSL. **Rwy 31R**, multiple trees and bushes beginning 305' from departure end of runway, 233' right of centerline, up to 48' AGL/507' MSL. Vent on building 919' from departure end of runway, 399' right of centerline, 15' AGL/474' MSL.

PALMDALE, CA

PALMDALE RGNL/USAF PLANT 42

TAKE-OFF MINIMUMS: **Rwy 22**, 1000-1 or std. with a min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **Rwys 4, 7**, turn left.

Rwys 22, 25, turn right. Eastbound V12, J6 climb on course. All others climb on R-298 to FISCH Int. (northwestbound climb in holding pattern SE, left turns, 298° inbound. Depart at 8100), continue climb direct PMD VORTAC to depart at or above published MCA.

PASO ROBLES, CA

PASO ROBLES MUNI

DEPARTURE PROCEDURE: All departures maintain 250 kts or less until inbound to PRB. **Rwy 1**, climb to 3000 via heading 280° to intercept PRB R-326 outbound. V248 northbound climb on course. All others climbing right turn to 4500 direct PRB. **Rwy 13**, climb to 3000 via heading 160° to intercept PRB R-133 outbound. V25 southbound continue climb on course. All others climbing right turn to 4500 direct PRB. **Rwy 19**, climb to 3000 via heading 150° to intercept PRB R-179 outbound. V113 southbound continue climb on course. All others climbing left turn to 4500 direct PRB. **Rwy 31**, climb to 3000 via heading 340° to intercept PRB R-326 outbound. V248 northbound climb on course. All others climbing right turn to 4500 direct PRB.

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

OXNARD, CA 09267

DEPARTURE PROCEDURE:
Rwy 3, Diverse departures authorized 210° to 250° CW. Right turns on departure not authorized. Turn left to assigned heading within 3 DME of NTD TACAN. Do not exceed 310 KIAS until established on assigned heading.
Rwy 9, Diverse departures not authorized.
Rwy 21, Diverse departures authorized 150° to 250° CW.
Rwy 27, Diverse departures authorized 150° to 250° CW. Right turns on departure not authorized. Turn left to assigned heading. Do not exceed 310 KIAS until established on assigned heading.
CAUTION: Mountainous terrain NW thru SE.
TAKE-OFF OBSTACLES: **Rwy 3**, Tower 90' MSL, 3005' from DER, 1238' left of centerline; Trees 90' MSL, 2920' from DER, 1199' left of centerline.

RAMONA, CA

RAMONA (RNM)

AMDT 3 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, std. w/ min. climb of 500' per NM to 4000, or 3800-3 for climb in visual conditions. **Rwy 27**, std. w/ min. climb of 332' per NM to 2600, or 3800-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 9**, climb via heading 088° to 4000, then climbing left turn via heading 330° and JLI VORTAC R-263/OCN VORTAC R-083 to ROBNN INT before proceeding on course, or for climb in visual conditions, cross Ramona airport at or above 5000 before proceeding on course. **Rwy 27**, climb via heading 268° to 2600, then climbing right turn via PGY VORTAC R-336 to ROBNN INT before proceeding on course, or for climb in visual conditions, cross Ramona airport at or above 5000 before proceeding on course.
NOTE: **Rwy 9**, sign 23' from DER, 178' left of centerline, 9' AGL/1399' MSL. Tree 94' from DER, 343' right of centerline, 20' AGL/1403' MSL. Trees beginning 2468' from DER, 180' right of centerline, up to 100' AGL/1539' MSL. Trees beginning 2637' from DER, 305' left of centerline, up to 100' AGL/1487' MSL. **Rwy 27**, tree 657' from DER, 12' left of centerline, 100' AGL/1499' MSL. Trees 1.85 NM from DER, 92' left of centerline, up to 100' AGL/1719' MSL.

REDLANDS, CA

REDLANDS MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, NA. **Rwy 26**, 1700-2 or std. with a min. climb of 300' per NM to 4000.
DEPARTURE PROCEDURE: Climbing left turn direct PDZ VORTAC. Aircraft departing PDZ VORTAC R-091 CW R-140 and R-231 CWR R-280 climb on course. All others continue in PDZ VORTAC holding pattern (hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above, R-281 CW R-090, 7700; R-141 CWR R-230, 4900.

RIALTO, CA

RIALTO MUNI-MIRO FIELD

TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb via PDZ R-012 to PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CWR R-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 6700; R-141 CWR-230, 4000.

RIVERSIDE, CA

RIVERSIDE MUNI

TAKE-OFF MINIMUMS: **Rwy 9**, CAT A, B 1200-2 or std. with a min. climb of 210' per NM to 2300. CAT C, D 2100-2 or std. with a min. climb of 240' per NM to 3500.
Rwy 16, NA. **Rwy 27**, CAT C, D 2400-2 or std. with a min. climb of 230' per NM to 3800. **Rwy 34**, CAT A, B 700-2 or std. with a min. climb of 400' per NM to 1600. CAT C, D 1600-2 or std. with a min. climb of 400' per NM to 2600.
DEPARTURE PROCEDURE: **Rwy 9**, climbing right turn. **Rwy 34**, climbing left turn. **Rwy 27**, climb heading 280° to 2000, then climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CW R-280 climb on course. All others continue climb in PDZ holding pattern (NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CW R-090, 6700; R-141 CW R-230, 4000; or Airway MEA.

SAN BERNARDINO, CA

SAN BERNARDINO INTL

TAKE-OFF MINIMUMS: **Rwy 6**, CAT A, B 2100-2 or std. with a min. climb of 340' per NM to 3700. CAT C, D 3100-2 or std. with a min. climb of 480' per NM to 4600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CWR R-280 climb on course. All others continue climb in PDZ holding pattern (Hold NE, right turns, 210° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 7700; R-141 CWR R-230, 4900.

SAN CLEMENTE ISLAND NALF (FREDERICKSHERMAN FLD)(KNUC)

SAN CLEMENTE ISLAND, CA 09071

Rwy 5: Diverse departures authorized 090° to 233° CCW.
Rwy 23: Diverse departures authorized 160° to 053° CW.
TAKEOFF OBSTACLES: **Rwy 5**, Pylon 198' MSL, 44' from DER, 273' right of centerline.

SAN DIEGO, CA

BROWN FIELD MUNI (SDM)

AMDT 3A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8L**, Cat. A,B 1900-2 or std. w/min. climb of 460' per NM to 2600. Cat. C,D 3100-3 or std. w/min. climb of 520' per NM to 3900.

Rwys 8R,26L, NA - ATC.

DEPARTURE PROCEDURE: **Rwy 8L**, climbing left turn.

Rwy 26R, climbing right turn. **All aircraft**, climb heading 280° to intercept MZB R-160 northwestbound to MZB VORTAC.

NOTE: **Rwy 26R**, trees 2184' from departure end of runway, 778' left of centerline, 60' AGL/561' MSL.

MONTGOMERY FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, 1500-2 or std. with a min. climb of 290' per NM to 1700.

DEPARTURE PROCEDURE: **Rwys 5, 10L/R**, climbing right turn. **Rwys 28L/R**, climbing left turn. **All aircraft** climb direct to MZB VORTAC. Aircraft departing MZB R-090 CW R-360 climb on course. All others climb in MZB holding pattern (W, right turns, 075° inbound) to cross MZB VORTAC at or above 1800.

SAN DIEGO INTL

TAKE-OFF MINIMUMS: **Rwy 9**, CAT A,B 400-1 or 300-1 with a min. climb of 610' per NM to 600. CAT C,D 300-1 with a min. climb of 610' per NM to 2300. **Rwy 27**, 300-1½ or std. with a min. climb of 317' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 600, then climbing left turn direct MZB VORTAC. **Rwy 27**, climb runway heading to 900, then climbing right turn direct MZB VORTAC. Aircraft departing MZB VORTAC R-180 CW R-360 climb on course. All others climb in MZB VORTAC holding pattern (W, right turns, 075° inbound) to cross MZB VORTAC at or above 2000.

NOTE: **Rwy 9**, trees 792' from departure end of runway, 142' left of centerline, 60' AGL/99' MSL. Antenna 740' from departure end of runway, 302' right of centerline, 62' AGL/82' MSL. Antenna 1946' from departure end of runway, 969' left of centerline, 126' AGL/192' MSL. Trees 1377' from departure end of runway, 285' left of centerline, 80' AGL/135' MSL. Trees 4625' from departure end of runway, 1414' left of centerline, 250' AGL/385' MSL. **Rwy 27**, trees 1 mile from departure end of runway, 685' right of centerline, 220' AGL/253' MSL. Trees 3118' from departure end of runway, 846' right of centerline, 120' AGL/149' MSL. Flagpole 2511' from departure end of runway, 700' left of centerline, 90' AGL/116' MSL.

SAN DIEGO (EL CAJON), CA

GILLESPIE FIELD

TAKE-OFF MINIMUMS: **Rwys 9L, 9R**, 900-2 or std. with a min. climb of 1000' per NM to 1600. **Rwy 17**, 500-1 or std. with a min. climb of 260' per NM to 800. **Rwys 27L, 27R**, CAT A,B 500-1 or std. with a min. climb of 370' per NM to 900. CAT C,D 2500-2 or std. with a min. climb of 370' per NM to 2500. **Rwy 35**, 1300-2 or std. with a min. climb of 460' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 9L, 9R, 27L, 27R**, climbing right turn. **Rwys 17, 35**, climbing left turn. **All aircraft** climb via heading 165° and MZB R-076 to MZB VORTAC.

SAN LUIS OBISPO, CA

SAN LUIS COUNTY RGNL

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA. **Rwy 11**, 1800-2 or std. with a min. climb of 320' per NM to 2300. **Rwy 29**, 1200-2 or std. with a min. climb of 390' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading to 900, then climbing right turn direct MQO VORTAC. **Rwy 29**, climb via runway heading and MQO R-050 to MQO VORTAC. **All aircraft** departing on MQO R-130 CW R-320 climb on course. All others continue climbing in MQO holding pattern (SE, left turns, 306° inbound) to cross MQO VORTAC at or above 4000.

SAN NICOLAS ISLAND NOLF (NSI)

SAN NICOLAS ISLAND, CA

Rwy 12: Diverse departures authorized 300° to 120° CW.

Rwy 30: Diverse departures not authorized. Rwy 30 climb heading 300° to 1300°, then turn right to assigned heading.

Rwy 12-30 Obstacle identification surface begins 10 ft above departure end of runway.

TKOFF OBSTACLES: Rwy 30: 1076' MSL (589' AGL) Tower, 2805' past DER, 1882' left of centerline.

SANTA ANA, CA

JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

AMDT 5 09239 (FAA)

DEPARTURE PROCEDURE: **Rwys 1L, 1R**, climbing left turn direct SLI VORTAC. **Rwys 19L, 19R**, climbing right turn direct SLI VORTAC. **All aircraft** climb in SLI holding pattern (hold South, left turns, 351° inbound) to cross SLI VORTAC at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 1L**, multiple trees beginning 466' from DER, 553' left of centerline, up to 85' AGL/127' MSL. Light pole 94' from DER, 490' left of centerline, 21' AGL/63' MSL. Obstruction light on DME 497' from DER, 625' right of centerline, 13' AGL/55' MSL. **Rwy 1R**, obstruction light on DME 497' from DER, 125' right of centerline, 13' AGL/55' MSL. Tree 1745' from DER, 309' right of centerline, 51' AGL/85' MSL. Light pole 1104' from DER, 307' right of centerline, 34' AGL/68' MSL. **Rwy 19R**, WSK on HGR 536' from DER, 605' left of centerline, 44' AGL/92' MSL. Multiple trees beginning 289' from DER, 500' right of centerline, up to 52' AGL/108' MSL. Light poles beginning 204' from DER, 490' right of centerline, up to 35' AGL/85' MSL. Tree 1574' from DER, 765' left of centerline, 59' AGL/113' MSL.

SANTA BARBARA, CA

SANTA BARBARA MUNI

TAKE-OFF MINIMUMS: **Rwy 7**, std. with a min. climb of 280' per NM to 1200, or 1900-2½ for climb in visual conditions. **Rwy 33L, 33R**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 7**, climbing right turn via heading 170°, thence...., or for climb in visual conditions: cross Santa Barbara Muni Airport southbound at or above 1900, thence...**Rwys 15L, 15R**, climb via heading 152°, thence...**Rwy 25**, climbing left turn via heading 155°, thence...

...then via RZS R-185 to GOLET INT, climb in GOLET INT holding pattern (SE, right turns, 307° inbound), to cross GOLET INT at or above MEA for route of flight, before proceeding on course.

NOTE: **Rwy 7**, obstruction light on DME antenna, road and numerous trees beginning 350' from departure end of runway, 101' right of centerline, up to 55' AGL/74' MSL. Antennas, poles, tower, and numerous trees beginning 194' from departure end of runway, 11' left of centerline, up to 79' AGL/98' MSL. **Rwy 15L**, numerous trees beginning 1242' from departure end of runway, 119' right of centerline, up to 100' AGL/159' MSL. **Rwy 15R**, sign and numerous trees beginning 29' from departure end of runway, 94' right of centerline, up to 100' AGL/159' MSL. Tree 1325' from departure end of runway, 243' left of centerline, 19' AGL/59' MSL. **Rwy 25**, trees beginning 1999' from departure end of runway, 793' right of centerline, up to 67' AGL/86' MSL.

SANTA MARIA, CA

SANTA MARIA PUBLIC/ CAPTAIN G. ALLAN HANCOCK FIELD

TAKE-OFF MINIMUMS: **Rwy 12**, CAT C,D 3400-2 or std. with a min. climb of 310' per NM to 3600. **Rwy 20**, CAT A,B 1300-2 or std. with a min. climb of 250' per NM to 1500; CAT C,D 1600-2 or std. with a min. climb of 250' per NM to 2100.

DEPARTURE PROCEDURE: **Rwys 2, 12**, climbing left turn. **Rwy 20**, climbing right turn. **Rwy 30**, climb via runway heading. **All aircraft** climb direct GLJ VOR. Continue climb via GLJ R-300 northwestbound to 2000, then continue climbing direct MQO VORTAC.

NOTE: 400' - 550' trees beginning ¾ mile from departure end of Rwy 12.

SANTA MONICA, CA

SANTA MONICA MUNI

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min. climb of 325' per NM to 1100, or 1200-3 for climb in visual conditions.

Rwy 21, std. w/ min. climb of 215' per NM to 4000, or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn to 5000 via SMO R-210 and LAX R-276 to SADDE INT, or for climb in visual conditions: cross SMO VOR/ DME at or above 1200 then continue climb to 5000 via SMO R-210 and LAX R-276 to SADDE INT. **Rwy 21**, climb to 5000 via SMO R-210 and LAX R-276 to SADDE INT, or for climb in visual conditions: cross SMO VOR/DME at or above 1200, then climb to 5000 via SMO R-210 and LAX R-276 to SADDE INT.

NOTE: **Rwy 3**, multiple signs and trees beginning 19' from departure end of runway, 300' right of centerline, up to 36' AGL/211' MSL, tower 5488' from departure end of runway, 1902' right of centerline, 150' AGL/325' MSL, light standard 19' from departure end of runway, 176' right of centerline, 6' AGL/181' MSL, multiple trees beginning 325' from departure end of runway, 227' left of centerline, up to 34' AGL/209' MSL, sign 56' from departure end of runway, 185' left of centerline, 6' AGL/ 181' MSL. **Rwy 21**, multiple trees and poles beginning 140' from departure end of runway, 247' right of centerline, up to 81' AGL/196' MSL, antenna on building 280' from departure end of runway, 486' right of centerline, 35' AGL/150' MSL, VOR 101' from departure end of runway, 255' left of centerline, 7' AGL/122' MSL.

SANTA YNEZ, CA

SANTA YNEZ

TAKE-OFF MINIMUMS: **Rwy 8**, CAT C,D 1100-2 or std. with a min. climb of 280' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 8**, turn left, climb to 6000 heading 260° and V27 to ORCUT Int. **Rwy 26**, climb to 6000 via RZS R-275 and V27 to ORCUT Int.

SHAFTER, CA

SHAFTER-MINTER FIELD

DEPARTURE PROCEDURE: **Rwys 12, 17**, turn right.

Rwys 30,35, turn left. Climb westbound to 4000 via V248. Westbound aircraft continue at 4000 on course. Eastbound aircraft turn right at 4000 direct EHF VORTAC.

TORRANCE, CA

ZAMPERINI FIELD

TAKE-OFF MINIMUMS: **Rwys 11L, 11R**, 400-1 or std. with a min. climb of 325' per NM to 500.

DEPARTURE PROCEDURE: **Rwys 29L, 29R**, climb runway heading. **Rwys 11L, 11R**, climbing left turn to heading 290°. Both departures climb to 3000, intercept LAX R-170 to LIMBO Int.

TUSI AHP (KHGT),

HUNTER LIGGETT, CA AMDT 3, 08269

Helicopter use only. Climb on a heading between 010° CW to 190° from heliport (or a minimum climb rate of 530' per NM to 7800 for all other courses).

TWENTYNINE PALMS, CA

TWENTYNINE PALMS

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwys 8, 26, 35**, std. with a min. climb of 280' per NM to 5500.
 DEPARTURE PROCEDURE: **Rwys 8, 26, 35**, turn right direct TNP VORTAC. Eastbound on V264 continue climb on course. All others climb in TNP holding pattern (E, left turns, 255° inbound) to cross TNP VORTAC at or above 6000 before proceeding on course. Northeast bound on V514-538 cross TNP VORTAC at or above 7900.

TWENTYNINE PALMS SELF (NXP)

TWENTYNINE PALMS, CA 07354
 Diverse departure not authorized.

UPLAND, CA

CABLE

TAKE-OFF MINIMUMS: **Rwy 6**, 300-1 or std. with a min. climb of 240' per NM to 1900.
 DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn. **Rwy 24**, climbing left turn. **All aircraft** climb direct PDZ VORTAC. Aircraft departing PDZ R-091 CW R-140 and R-231 CW R-280 climb on course. All others continue climb in PDZ holding pattern (E, right turns, 258° inbound) to cross PDZ VORTAC at or above: R-281 CWR-090, 6700; R-141 CWR-230, 4000.

VAN NUYS, CA

VAN NUYS

TAKE-OFF MINIMUMS: **Rwys 16L, 16R**, 2500-2 or std. with a min. climb of 300' per NM to 3800. **Rwys 34L, 34R**, 3300-2 or std. with a min. climb of 425' per NM to 4500.
 DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climbing left turn. **Rwys 34L, 34R**, climbing right turn. **All aircraft** intercept VNY R-095 to DARTS Int. Aircraft eastbound via V186 and southeastbound via V459 climb on course. All others, continue climbing right turn direct VNY VOR/DME before proceeding on course.

VANDENBERG AFB (KVBG)

LOMPOC, CA09071
Rwy 12: GAVIATO ONE, 300-1.5

Rwy 12/30: All departures (GAVIATO ONE, VANDENBERG ONE, Diverse Departures Rwy 12/30, VCOA Rwy 12/30) CROSS DER AT OR ABOVE 35' AGL. **Rwy 12**: Diverse Departure Authorized: 6500-3 or standard with a minimum climb rate of 300'/NM to 8800, cross DER at or above 35' AGL/404' MSL. **Rwy 30**: Diverse Departure Authorized: 6400-3 or standard with a minimum climb rate of 270 ft/NM to 8800, cross DER at or above 35' AGL/274' MSL.

TAKE-OFF OBSTACLES: **Rwy 12** trees 40' AGL/479' MSL, 3814' from DER, 1126' right of centerline. Road with possible vehicles 10' AGL/443' MSL, 2961' from DER, 360' right of centerline. Trees 200' AGL/594' MSL, 1.3 NM from DER, 795' right of centerline. Trees 200' AGL/600' MSL, 1.1 NM from DER, 2250' right of centerline. Trees 200' AGL/604' MSL, 1.0 NM from DER, 90' right of centerline. Trees 200' AGL/600' MSL, 1.4 NM from DER, 2665' left of centerline. Trees 200' AGL/620' MSL, 6051' from DER, 2044' left of centerline. Trees 50' AGL/1375' MSL, 3.2 NM from DER, 5.0 NM left of centerline. Trees 107' AGL/546' MSL, 4548' from DER, 1479' right of centerline. **Rwy 12/30 VCOA**: For climb in Visual Conditions 2200-3, remain within 6.5 NM from airport, cross Vandenberg airport at or above 2400, then proceed as filed. Maximum airspeed 250 kts. Note: Aircrews must notify ATC prior to executing this VCOA procedure.

VICTORVILLE, CA

SOUTHERN CALIFORNIA LOGISTICS

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ min. climb of 266' per NM to 3500 or 5300-3 for climb in visual conditions.
 DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn heading 220°, thence... or for climb in visual conditions cross Southern California Logistics Airport at or above 8000 MSL before proceeding on course. **Rwys 17, 21**, climbing right turn heading 325°, thence... **Rwy 35**, climbing left turn heading 220°, thence...
 ... All aircraft climb via VCV VOR/DME R-269 to ETHER INT. Continue climb in ETHER holding pattern (NE PMD VORTAC, left turn, 247° inbound) to MEA for direction of flight.

NOTE: **Rwy 3**, pole 408' from departure end of runway, 511' right of centerline, 29' AGL/2873' MSL. Terrain beginning 153' from departure end of runway, 41' right of centerline, up to 3196' MSL. Terrain beginning 17' from departure end of runway, 104' left of centerline, up to 2855' MSL. Tree 2.1 NM from departure end of runway, 3735' right of centerline, 50' AGL/3269' MSL. **Rwy 17**, sign 248' from departure end of runway, 277' left of centerline, 14' AGL/2896' MSL. Antenna on building 701' from departure end of runway, 203' left of centerline, 20' AGL/2902' MSL.

TAKE-OFF MINIMUMS

Rwy 3: Standard with minimum climb of 340 feet per NM to 5900.
Rwy 13: Standard with minimum climb of 230 feet per NM to 8200.
Rwy 21: Standard with minimum climb of 365 feet per NM to 6000.
Rwy 31: Standard with minimum climb of 450 feet per NM to 5800.

NOTE: GPS required.

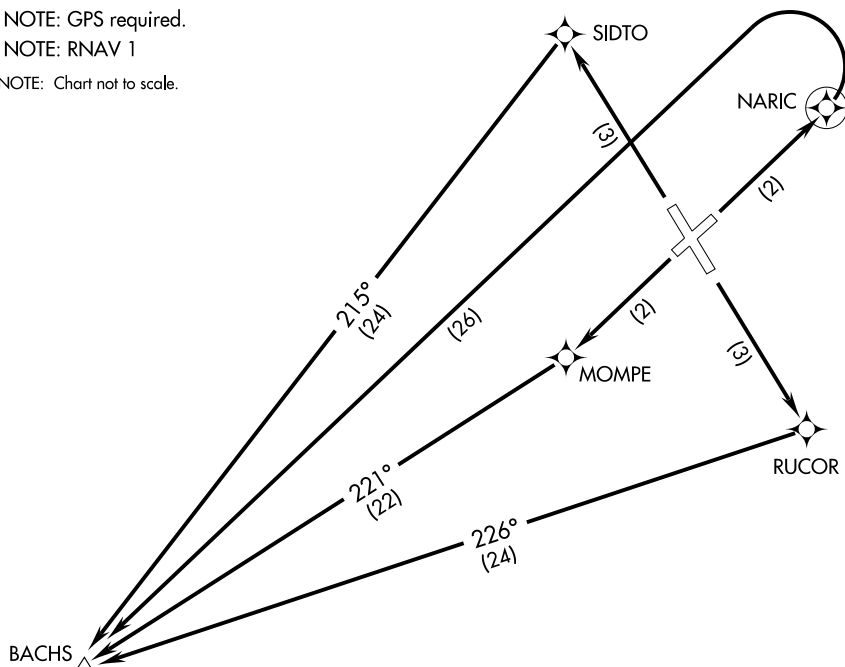
NOTE: RNAV 1

NOTE: Chart not to scale.

SEATTLE CENTER

127.6 346.35

CTAF 122.8



TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees, buildings, poles and a road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4659' MSL.
Rwy 21: Trees and road with vehicles beginning 1' from DER, right and left of centerline, to 100' AGL/4469' MSL.
Rwy 13: Trees and a road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4519' MSL.
Rwy 31: Trees and road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4469' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb to 9000 direct NARIC, then climbing left turn direct BACHS.

TAKE-OFF RUNWAY 13: Climb to 9000 direct RUCOR, turn right via 226° track to BACHS.

TAKE-OFF RUNWAY 21: Climb to 9000 direct MOMPE, then via 221° track to BACHS.

TAKE-OFF RUNWAY 31: Climb to 9000 direct SIDTO, turn left via 215° track to BACHS.

SEATTLE CENTER
127.6 346.35
CTAF 122.8

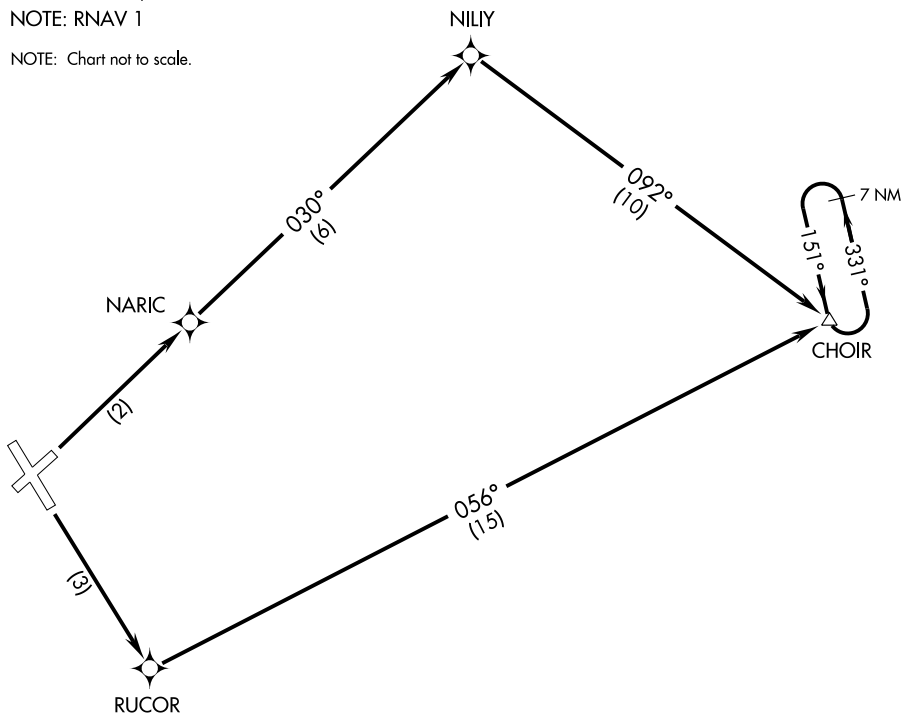
TAKE-OFF MINIMUMS

Rwy 3: Standard with minimum climb of 367' per NM to 11000.
Rwy 13: Standard with minimum climb of 389' per NM to 11000.
Rwys 21 and 31: NA - ATC.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.



TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees, buildings, poles and a road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4659' MSL.

Rwy 13: Trees and road with vehicles beginning 1' from DER, right and left of centerline, up to 100' AGL/4519' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb to 11000 direct NARIC and via 030° track to NILIY and via 092° track to CHOIR, Thence....

TAKE-OFF RUNWAY 13: Climb to 11000 direct RUCOR and via 056° track to CHOIR, Thence....

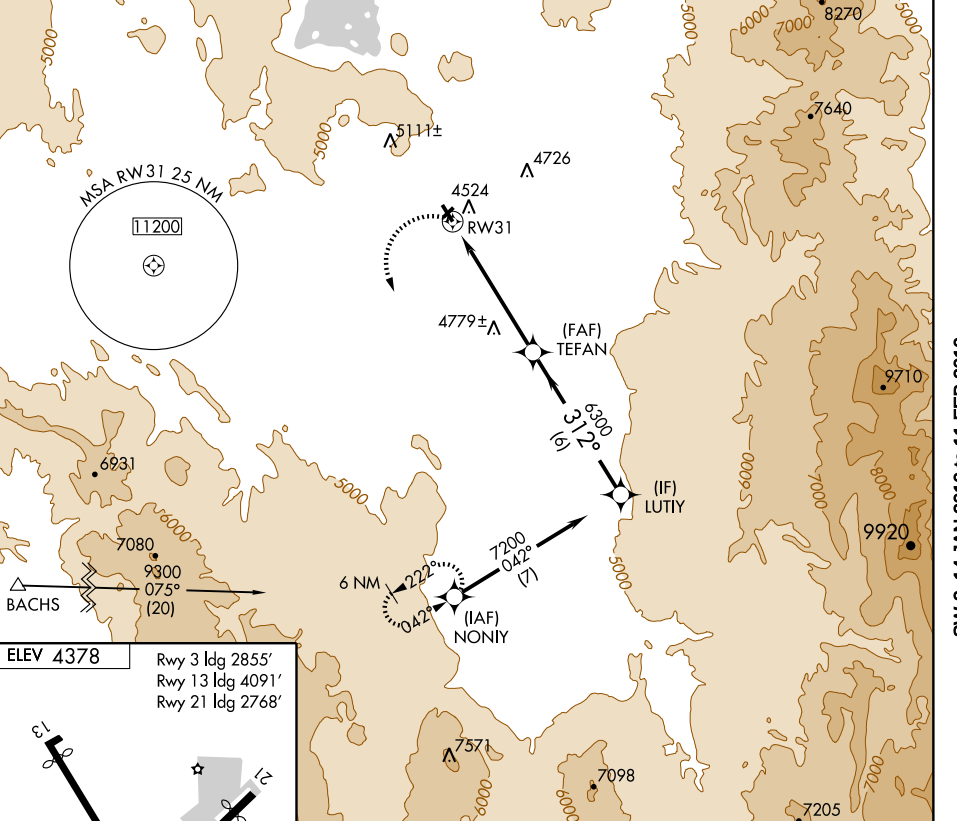
....climb in holding, (if required) before proceeding on course.

▼

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 9300 direct NONIY and hold, continue climb-in-hold to 9300.

ASOS 124.175	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF) 0
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ELEV 4378

Rwy 3 ldg 2855'
Rwy 13 ldg 4091'
Rwy 21 ldg 2768'

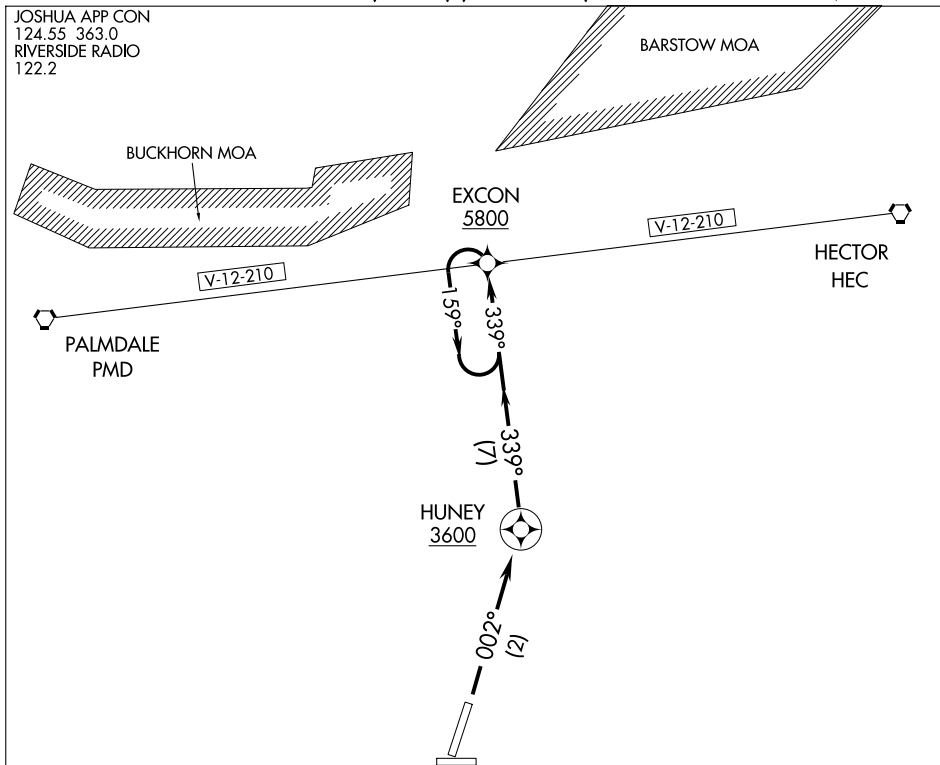
REIL Rwy 3 and 31 1
MIRL Rwy 13-31 1
LIRL Rwy 3-21 1

312° to RW31

9300	NONIY	VGSi and descent angle not coincident		LUTY
		2 NM to RW31	TEFAN	7200
		2 NM	3.5 NM	6 NM
CATEGORY	A	B	C	D
LNNAV MDA	5040-1	662 (700-1)	NA	
CIRCLING	5040-1	662 (700-1)	NA	

EXCON ONE DEPARTURE (RNAV) (OBSTACLE)

JOSHUA APP CON
124.55 363.0
RIVERSIDE RADIO
122.2



NOTE: 1. GPS required
2. RNAV 1

TAKE-OFF MINIMUMS: 300-1 or standard with a minimum climb gradient of 340' per NM until 5800'.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb via 002° course to HUNEY WP, then 339° course to EXCON WP, then climb in EXCON WP holding pattern (hold S left turns 339° inbound) to 7500' MSL then proceed on course.

▼

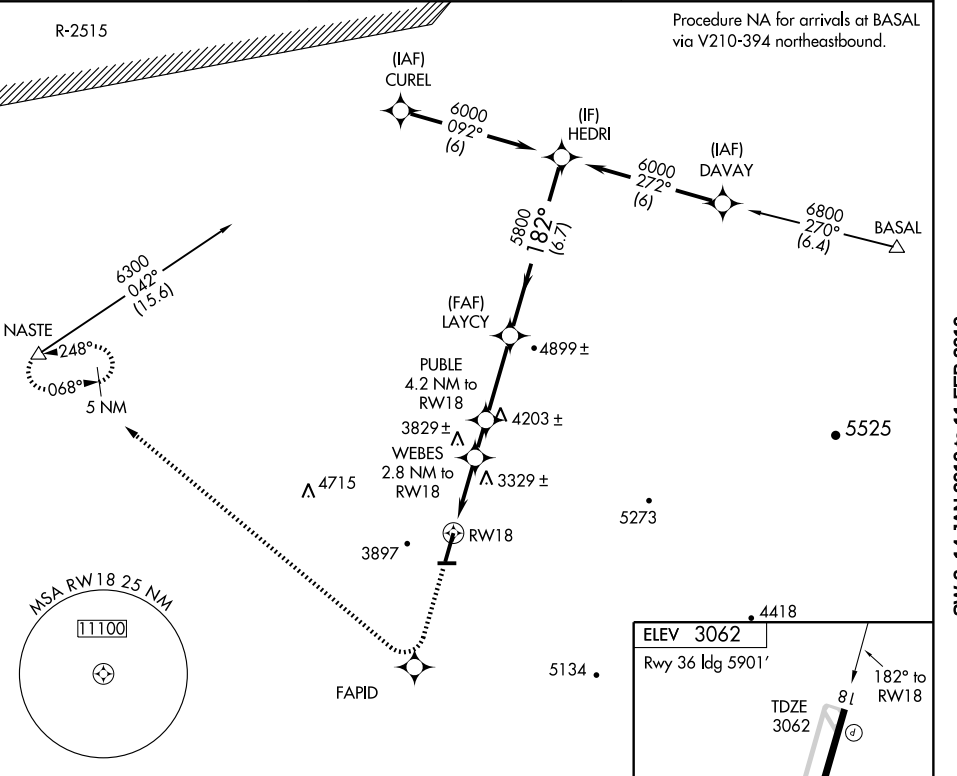
NA

Circling to Rwy 8 and 26 NA at night.
DME/DME RNP-0.3 NA.

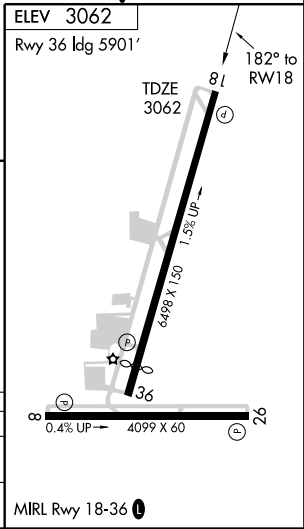
Visibility reduction by helicopters NA.
Use Southern California Logistics altimeter setting; if not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct FAPID and right turn via 296° track to NASTE and hold.

SOUTHERN CALIFORNIA LOGISTICS AWOS-3 109.4	JOSHUA APP CON 124.55 363.0	UNICOM 122.8 (CTAF) 0
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6000	FAPID	NASTE	VGSI and descent angles not coincident.		HEDRI
↑	✧	△	296° track		
RWY 18		WEBES 2.8 NM to RWY 18	PUBLE 4.2 NM to RWY 18	LAYCY	6000
4140		4660	5800	Procedure Turn NA	
2.8 NM		1.4 NM	3.1 NM	6.7 NM	
CATEGORY	A	B	C	D	
RNAV MDA	3700-1	638 (700-1)	3700-1¾ 638 (700-1¾)	3700-2 638 (700-2)	
CIRCLING	4000-1 938 (1000-1)	4300-1 1238 (1300-1)	4320-3 1258 (1300-3)	4660-3 1598 (1600-3)	

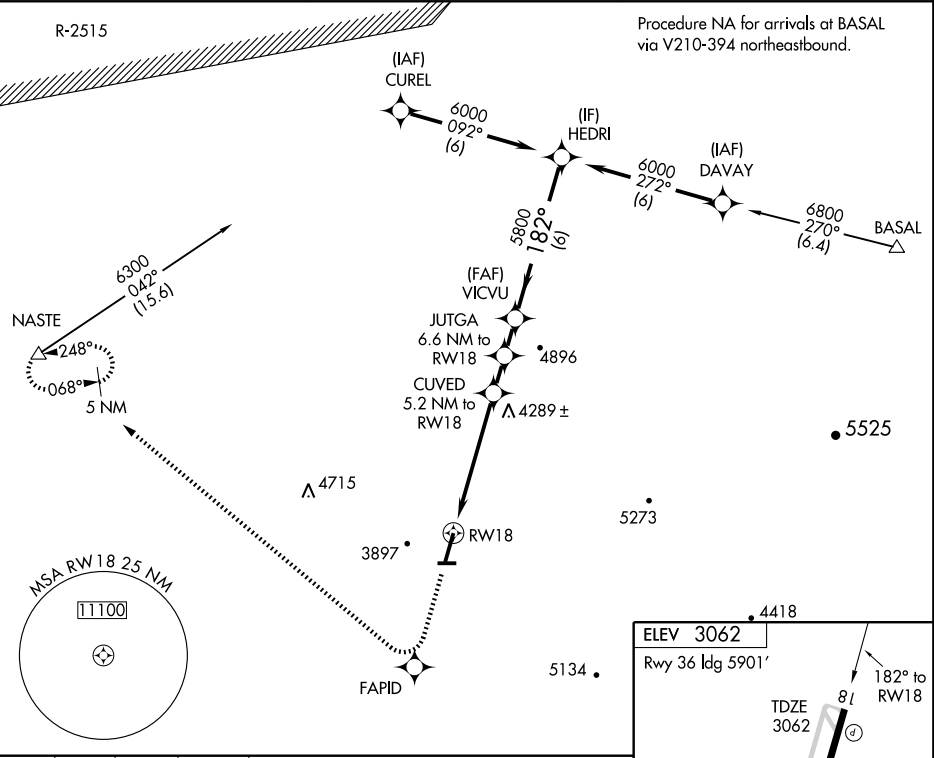


WAAS Ch 63102 W18A	APP CRS 182°	Rwy Idg TDZE Apt Elev 6498 3062 3062
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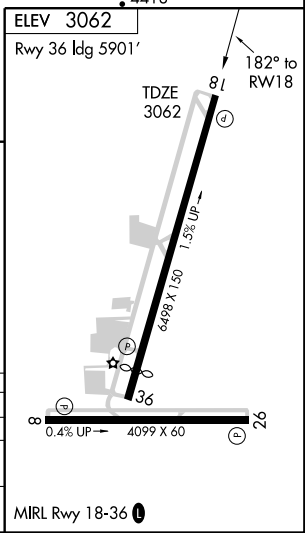
RNAV (GPS) Z RWY 18

APPLE VALLEY (APV)

⚠ NA W Circling to Rwy 8 and 26 NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Southern California Logistics altimeter setting; if not received, procedure NA.	MISSED APPROACH: Climb to 6000 direct FAPID and right turn via 296° track to NASTE and hold.	
SOUTHERN CALIFORNIA LOGISTICS AWOS-3 109.4	JOSHUA APP CON 124.55 363.0	UNICOM 122.8 (CTAF) 0



6000	FAPID	NASTE	VGSI and RNAV glidepath not coincident	HEDRI
GS 3.10° TCH 50 RW18	* LNAV only	CUVED 5.2 NM to RW18	JUTGA 6.6 NM to RW18	VICVU
		* 4840	* 5320	6000
		5.2 NM	1.4 NM	1.4 NM
				6 NM
CATEGORY	A	B	C	D
LPV DA	3439-1¼ 377 (400-1¼)			
LNAV MDA	4600-1¼ 1538 (1600-1¼)	4600-1½ 1538 (1600-1½)	4600-3 1538 (1600-3)	
CIRCLING	4600-1¼ 1538 (1600-1¼)	4600-1½ 1538 (1600-1½)	4600-3 1538 (1600-3)	4660-3 1598 (1600-3)



SL-519 (FAA)

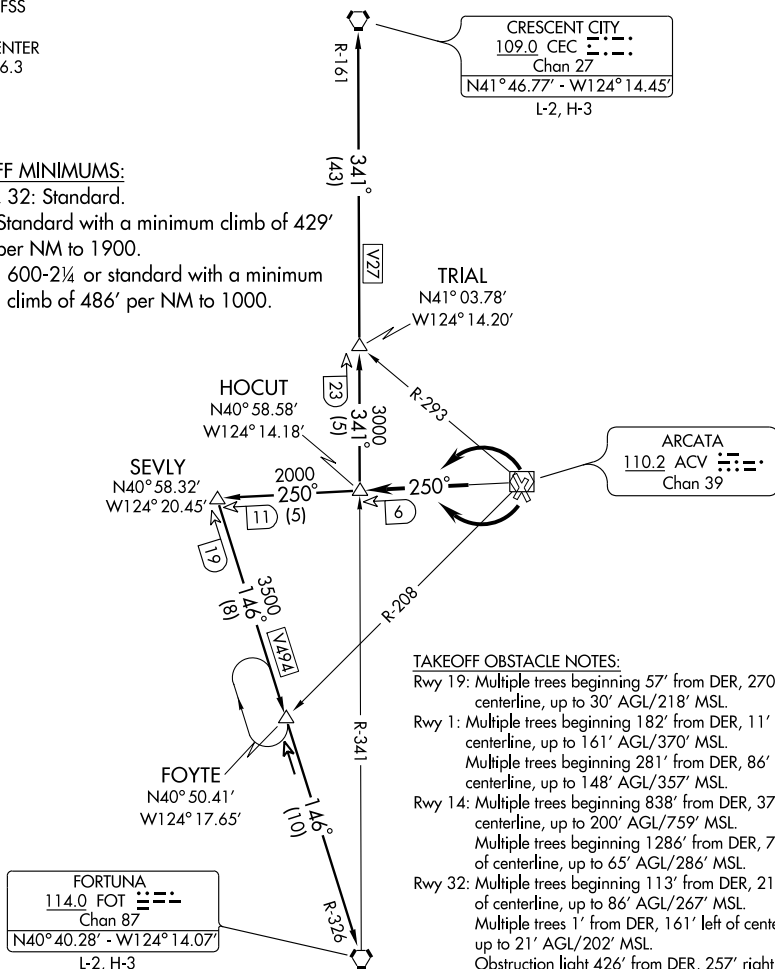
ARCATA (ACV)

OAKLAND FSS	
122.6	
SEATTLE CENTER	
124.85	306.3

Rwy 19, 32: Standard.

Rwy 1: Standard with a minimum climb of 429' per NM to 1900.

Rwy 14: 600-2¼ or standard with a minimum climb of 486' per NM to 1000.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1 and 32: Climbing left turn, thence. . .

TAKE-OFF RUNWAYS 14 and 19: Climbing right turn, thence. . .

...via ACV R-250 to HOCUT INT.

CRESCENT CITY TRANSITION (HOCUT3.CEC): From over HOCUT INT via FOT R-341 and CEC R-161 to CEC VORTAC.

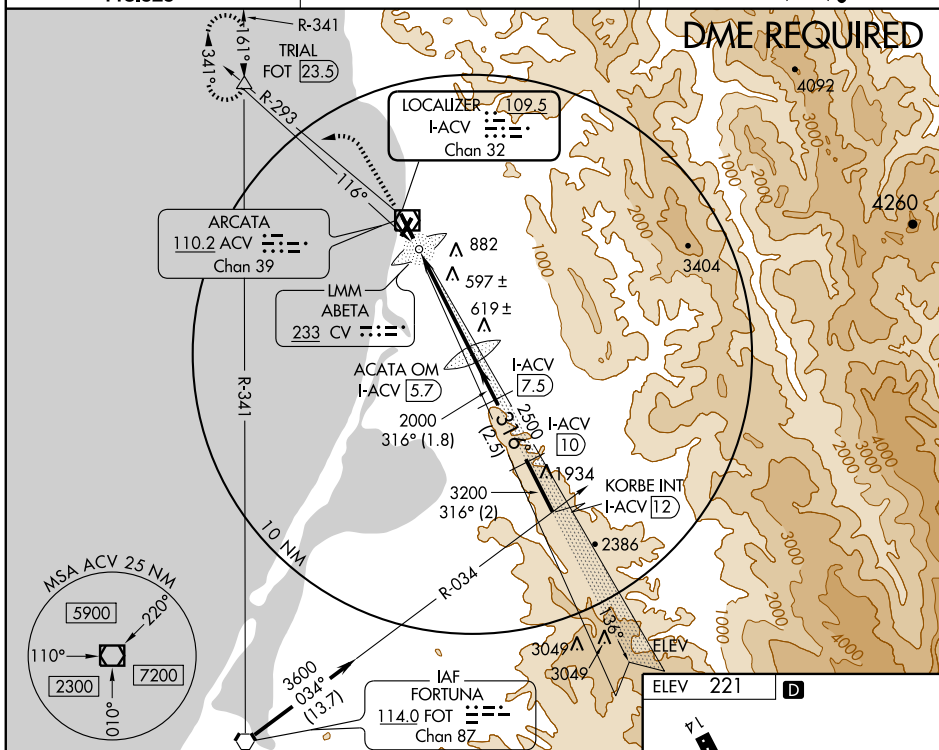
FORTUNA TRANSITION (HOCUT3.FOT): From over HOCUT INT via ACV R-250 to SEVLY INT, then via FOT R-326 to FOT VORTAC.

ILS or LOC/DME RWY 32
ARCATA (ACV)

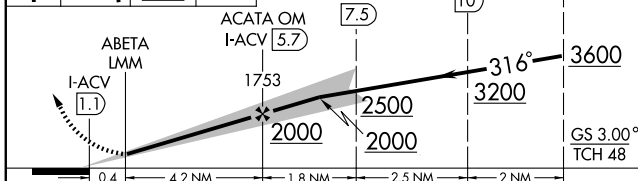
MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 3000 via heading 250° and FOT R-341 to TRIAL Int and hold.

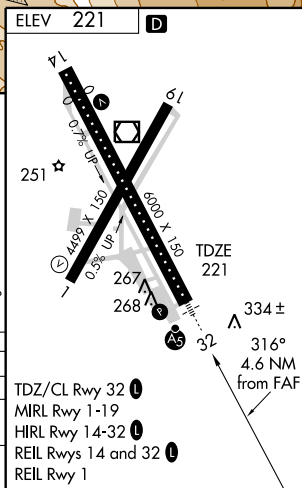
SEATTLE CENTER
124.85 306.3

UNICOM
123.0 (CTAF) **L**

800 ↑	3000 ↖ 250°	FOT R-341 114.0	TRIAL △	Use I-ACV DME when on LOC course. I-ACV	Procedure Turn NA I-ACV 10	KORBE INT I-ACV 12
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CATEGORY	A	B	C	D
S-ILS 32	421/18		200 (200-½)	
S-LOC 32	860/24 639 (700-½)		860/60 639 (700-1¼)	860-1½ 639 (700-1½)
CIRCLING	860-1 639 (700-1)		860-1¾ 639 (700-1¾)	860-2 639 (700-2)



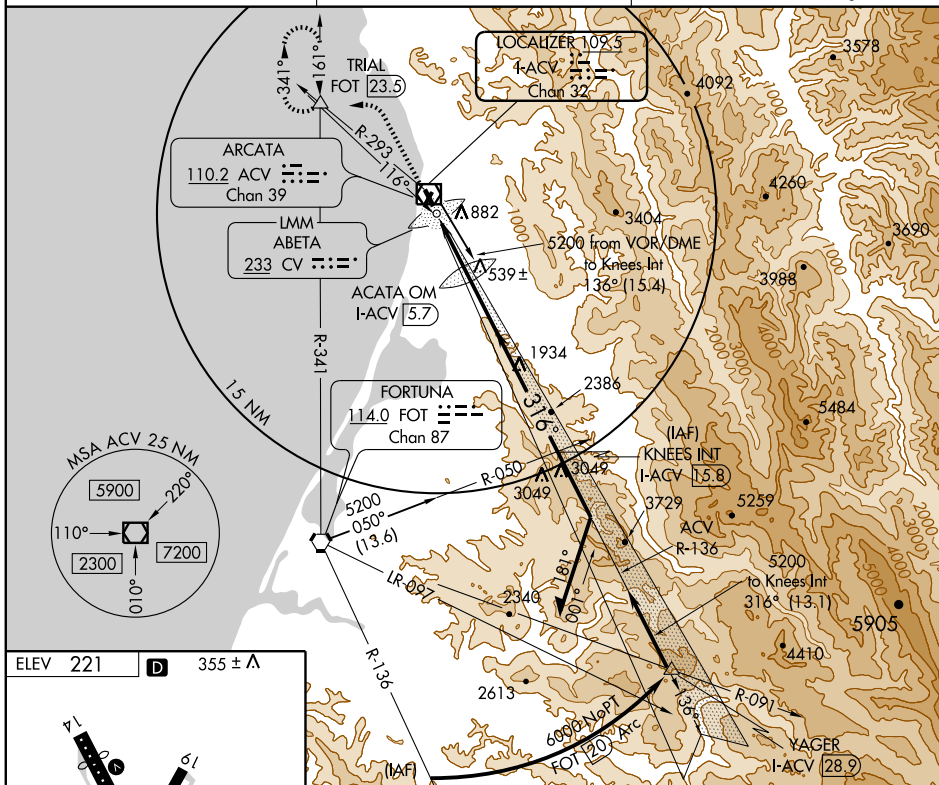
LOC/DME I-ACV <u>109.5</u> Chan 32	APP CRS 316°	Rwy Idg 5198 TDZE 221 Apt Elev 221
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ILS RWY 32
ARCATA (ACV)

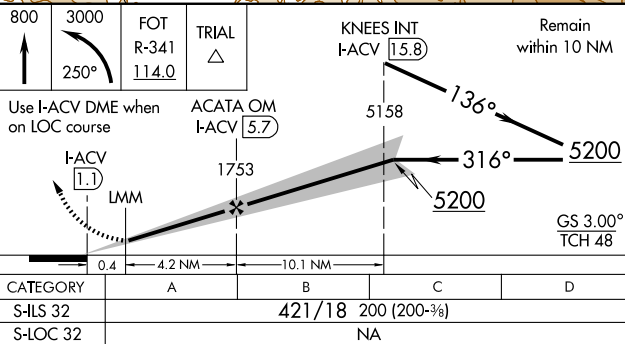
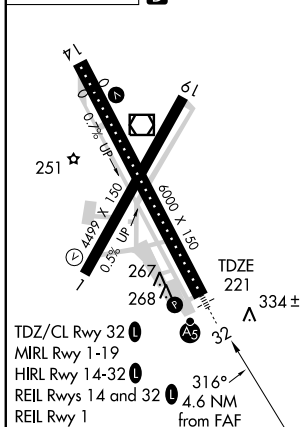
A When local altimeter setting not received, use Crescent City altimeter setting and increase all DA 135 feet, all MDA 140 feet. Increase S-ILS 32 visibility to RVR 4000 and increase circling visibility Cat D to 2 1/4.

MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 3000 via heading 250° and FOT R-341 to TRIAL INT and hold.

ASOS
118.525SEATTLE CENTER
124-85 306-3UNICOM
123.0 (CTAF) **L**

ELEV	221	D	355 ± A
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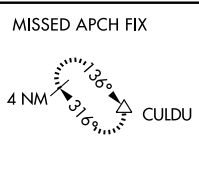
RNAV (GPS) RWY 1 ARCATA (ACV)

WAAS CH 63200 W01A	APP CRS 013°	Rwy Idg TDZE Apt Elev	4499 204 221
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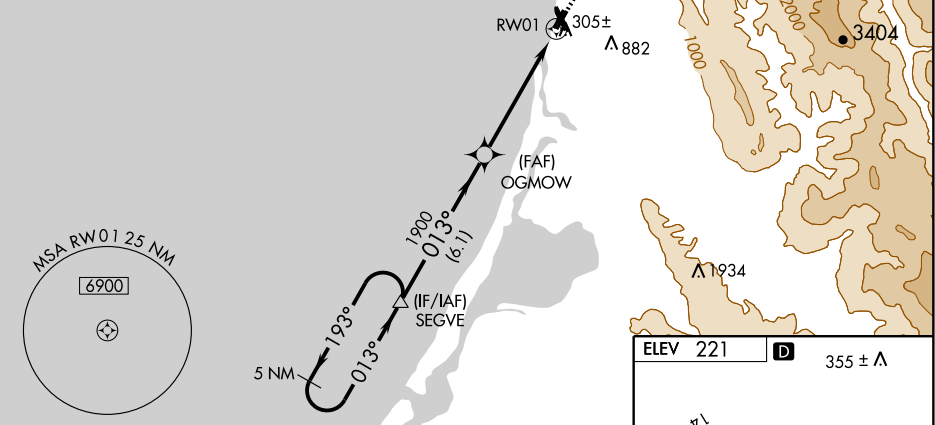
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Circling NA east of Rwy 14-32.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (119°F).
 If local altimeter setting not received, use Crescent City altimeter setting and increase all DA/MDAs 140 feet.
 Baro-VNAV NA when using Crescent City altimeter setting.

MISSED APPROACH: Climb to 3000 direct HIPGI and left turn via 302° track to CULDU and hold.

ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF) 0
------------------------	---------------------------------------	---------------------------------



NoPT for arrival at SEGVE on V27 northbound.



5 NM Holding Pattern

3000

193°

013°

GS 3.00°

TCH 40

SEGVE

013°

1900

6.1 NM

5.2 NM

OGMOW

RW01

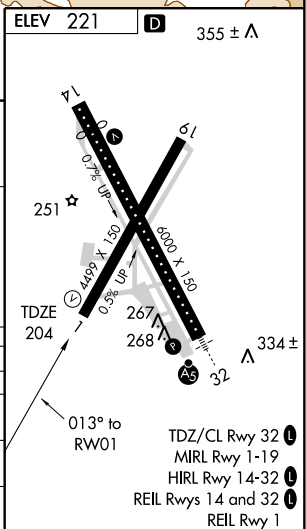
3000

HIPGI

302° track

CULDU

CATEGORY	A	B	C	D
LPV DA	768-2 564 (600-2)			
LNAV/VNAV DA	919-2½ 715 (700-2½)			
LNAV MDA	1140-1¼ 936 (1000-1¼)	1140-2¾ 936 (1000-2¾)	1140-3 936 (1000-3)	
CIRCLING	1140-2½ 919 (1000-2½)	1140-2¾ 919 (1000-2¾)	1140-3 919 (1000-3)	

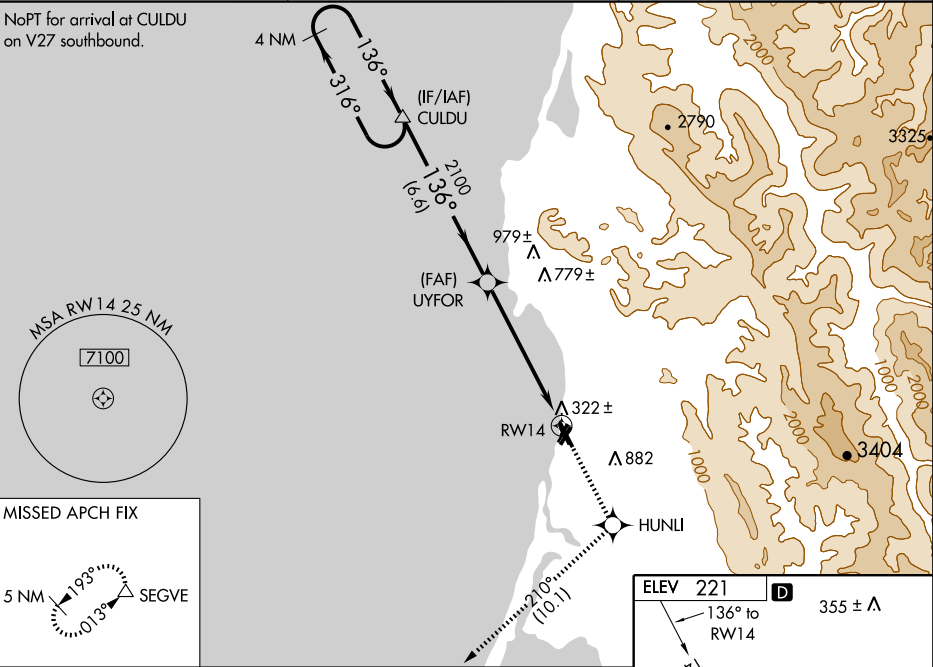


WAAS CH 62801 W14A	APP CRS 136°	Rwy Idg TDZE Apt Elev	5198 207 221
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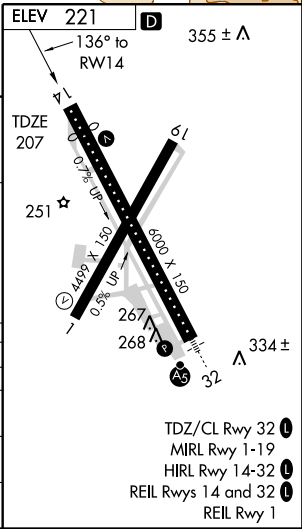
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Circling NA east of Rwy 14-32.
W For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (119°F).
If local altimeter setting not received, use Crescent City altimeter setting and increase all DA/MDAs 140 feet.
VDP and Baro-VNAV NA when using Crescent City altimeter setting.

MISSED APPROACH: Climb to 3000 direct HUNLI and via 210° track to SEGVE and hold.

ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF) 0
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4 NM Holding Pattern		CULDU	3000	HUNLI	210° track	SEGVE
3000		316°	136°	136°	2100	RW14
GS 3.00° TCH 51		6.6 NM	3.6 NM	2.2 NM		
CATEGORY	A	B	C	D		
LPV DA	459-1		252 (300-1)			
LNAV/VNAV DA	710-1¾		503 (500-1¾)			
LNAV MDA	880-1	673 (700-1)	880-2	673 (700-2)	880-2¼	673 (700-2¼)
CIRCLING	880-1¾	659 (700-1¾)	880-2	659 (700-2)	880-2¼	659 (700-2¼)



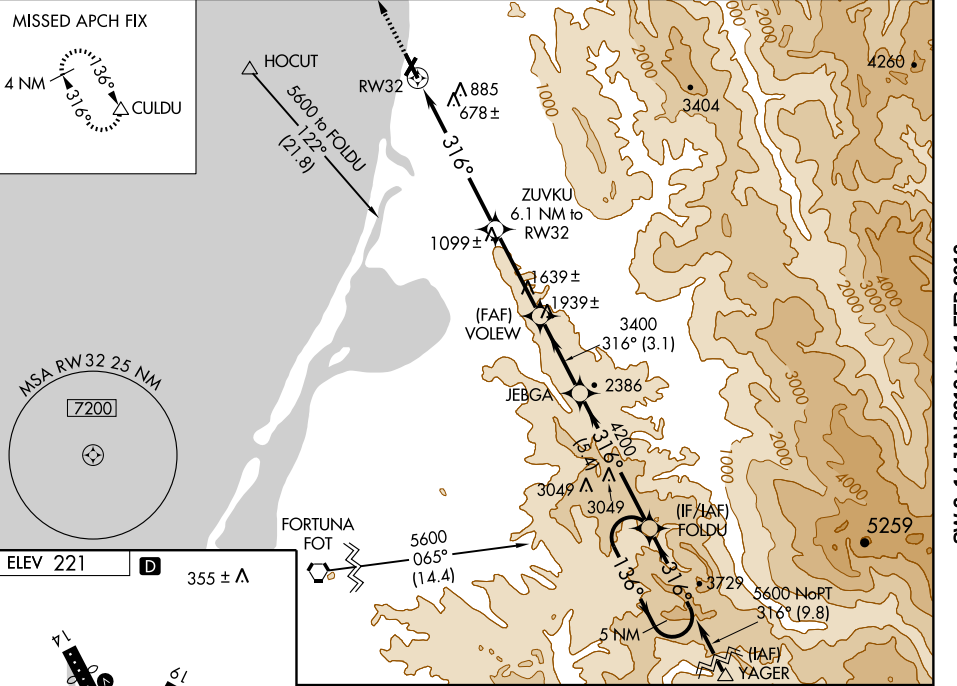
WAAS CH 63108 W32A	APP CRS 316°	Rwy Idg TDZE Apt Elev	5198 221 221
--	------------------------	-----------------------------	---

T Circling NA east of Rwy 14-32.
A Baro-VNAV NA when using Crescent City altimeter setting.
W For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Inoperative table does not apply to LPV, LNAV/VNAV, and LNAV Cats A and B.
When local altimeter setting not received, use Crescent City altimeter setting and increase all DA/MDA 140 feet, increase visibilities LPV ½ mile all Cats, LNAV Cats A, B ¼ mile, Cats C, D 1 mile, inoperative table does not apply.

MALSRL

MISSED APPROACH: Climb to 3000 direct CULDU and hold.

ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF)
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ELEV 221 **D** 355 ± Δ

TDZ/CL Rwy 32 **1**
MIRL Rwy 1-19
HIRL Rwy 14-32 **1**
REIL Rwy 14 and 32 **1**
REIL Rwy 1

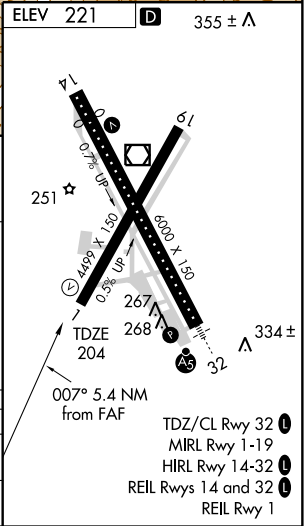
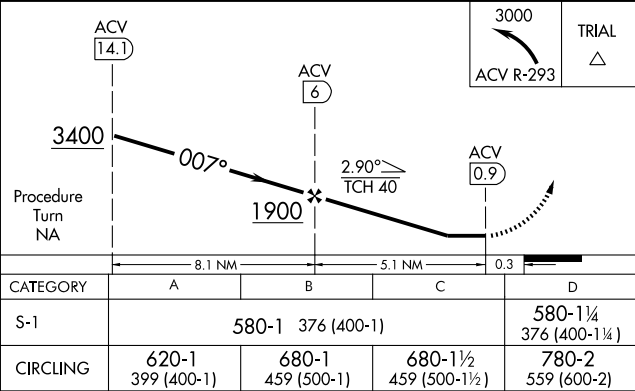
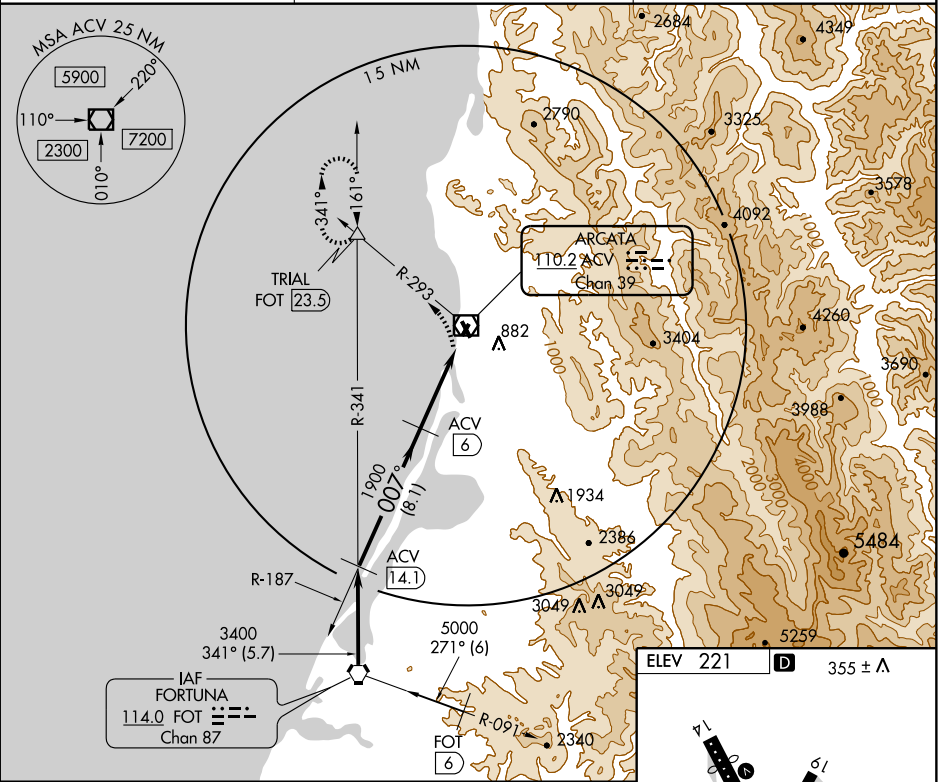
3000	CULDU	* LNAV only	JEBGA	FOLDU	5 NM Holding Pattern
		ZUVKU 6.1 NM to RW32	VOLEW		
		2220*	3400	4200	5600
		6.1 NM	3.5 NM	3.1 NM	5.4 NM
					GS 3.00° TCH 47
CATEGORY	A	B	C	D	
LPV DA	DA	509/50	288 (300-1)		
LNAV/VNAV DA	DA	1164-4	943 (1000-4)		
LNAV MDA	940/50	719 (800-1)	940-1½ 719 (800-1½)	940-1¾ 719 (800-1¾)	
CIRCLING	940-1	719 (800-1)	940-2 719 (800-2)	940-2¼ 719 (800-2¼)	

VOR/DME ACV	APP CRS	Rwy Idg	4499
110.2	007°	TDZE	204
Chan 39		Apt Elev	221

VOR/DME RWY 1
ARCATA (ACV)

▼ Circling not authorized east of Rwy 14-32.	MISSED APPROACH: Climbing left turn to 3000 via ACV R-293 to TRIAL Int/DME and hold.
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ASOS 118.525	SEATTLE CENTER 124.85 306.3	UNICOM 123.0 (CTAF) 0
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VOR/DME ACV 110.2 Chan 39	APP CRS 123°	Rwy Idg 5198 TDZE 207 Apt Elev 221
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VOR/DME RWY 14
ARCATA (ACV)

▼ Circling NA east of Rwy 14-32.
▲ Visibility reduction by helicopters NA.
When local altimeter setting not received, use Crescent City altimeter setting and increase all MDA 140 feet and S-14 visibility Cat C ¼ mile, Cat D ½ mile, and circling Cat D ¼ mile. VDP NA when using Crescent City altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 via ACV VOR/DME R-208 to HEXIT INT/8.2 DME and hold, continue climb-in-hold to 3000.

ASOS

118.525

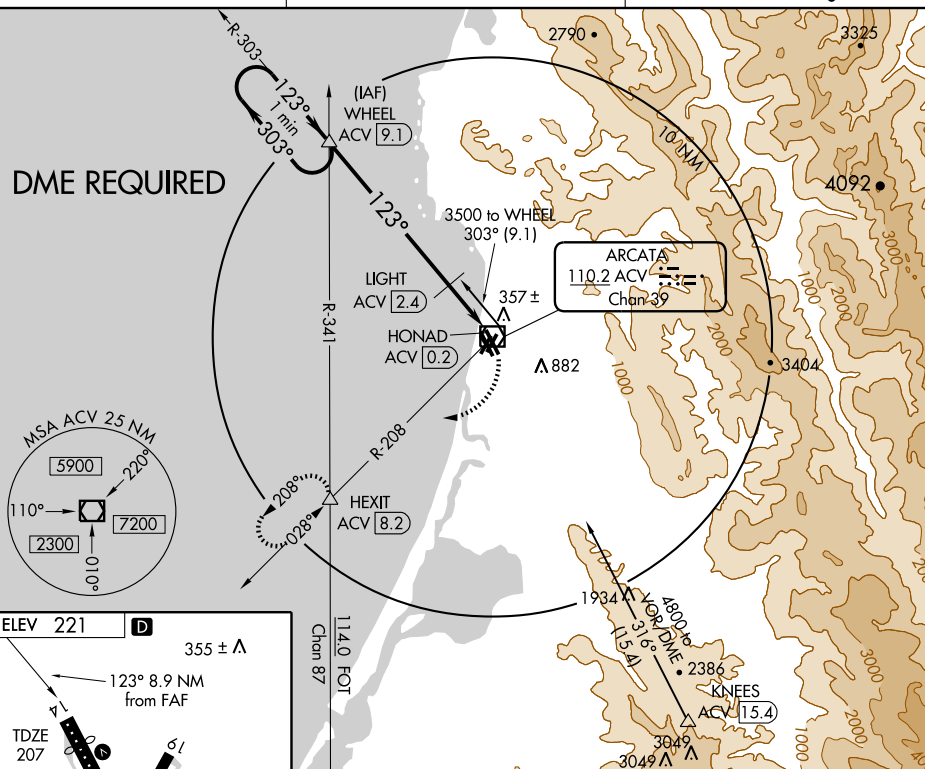
SEATTLE CENTER

124.85 306.3

UNICOM

123.0 (CTAF) **L**

DME REQUIRED



One Minute Holding Pattern

WHEEL
ACV 9.1

3000

HEXIT

3000 —

LIGHT
ACV 24

AC

$$\underline{2.93^\circ}$$

CATEGORY

A

	B
--	---

C	D
---	---

References

20

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68

0-1½	780-2
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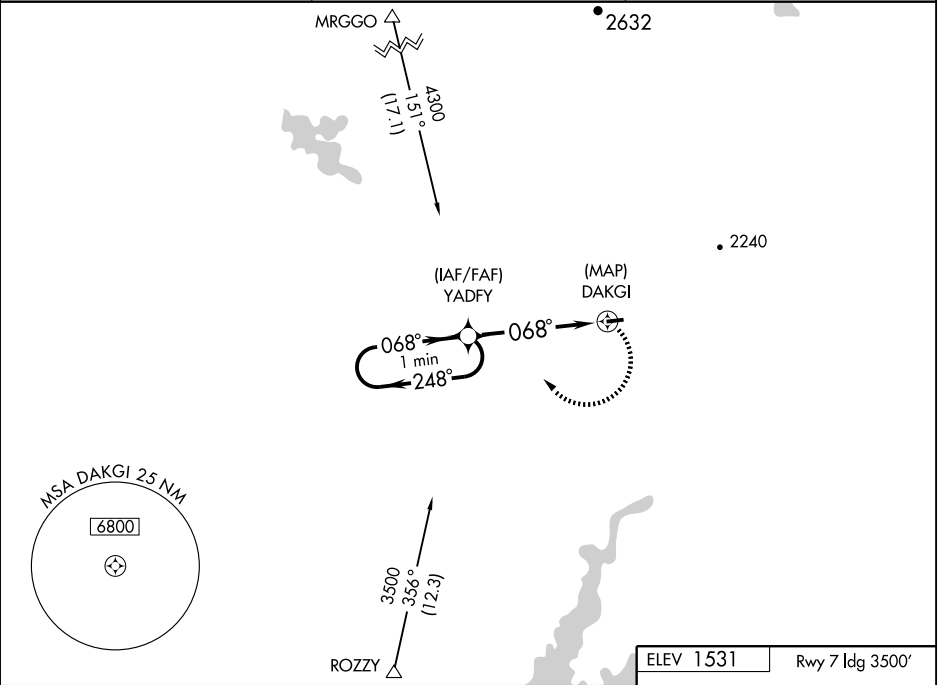
APP CRS	Rwy Idg	3500
068°	TDZE	1531
	Apt Elev	1531



Obtain local altimeter setting on CTAF; when not received use Lincoln, CA (Lincoln Regional) altimeter setting, when neither received procedure not authorized.

MISSED APPROACH: Climbing right turn to 3200 direct YADFY WP and hold.

AWOS-3 119.375	NORCAL APP CON 125.4 317.5	UNICOM 122.7 (CTAF) 0
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One Minute Holding Pattern

YADFY

3200

248°

068°

DAKGI

5 NM

3200

YADFY

ELEV 1531

Rwy 7 Idg 3500'

TDZE 1531

3700 X 75

1.2% UP

068° to DAKGI

MIRL Rwy 7-25 0

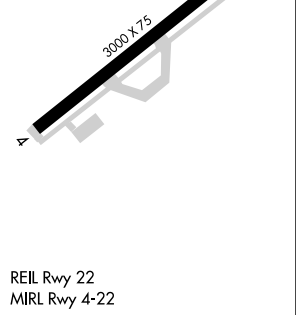
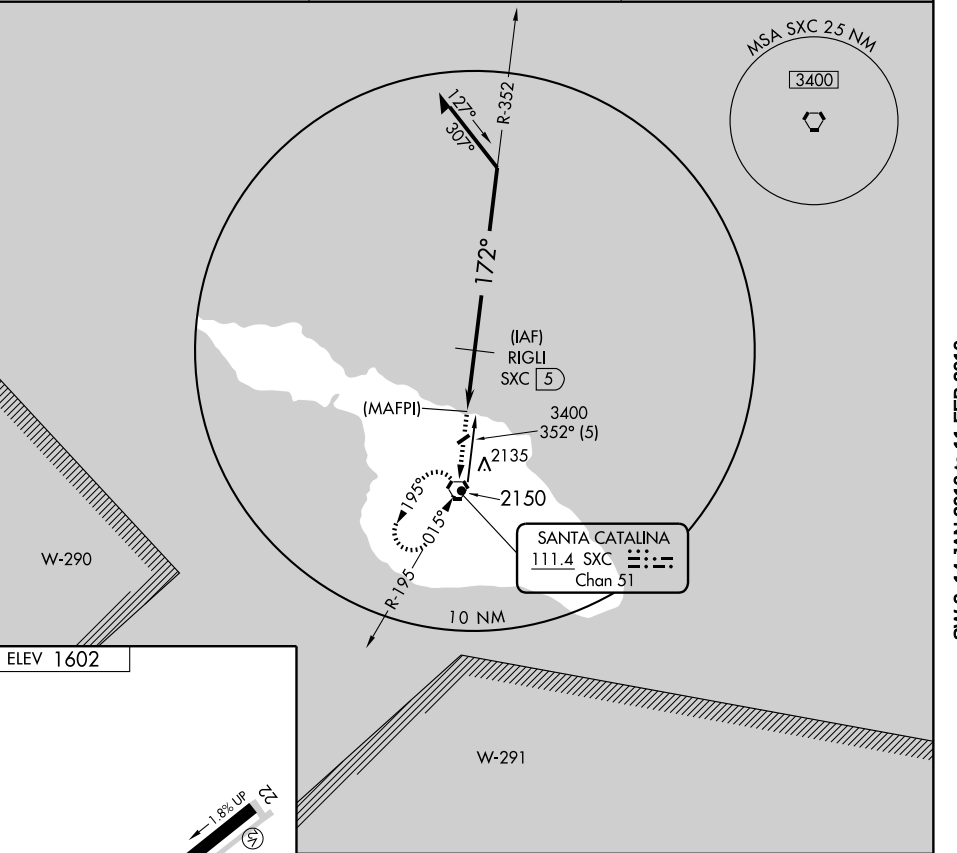
CATEGORY	A	B	C	D
S-7	1980-1	449 (500-1)	NA	
CIRCLING	2200-1 669 (700-1)	2260-1 729 (800-1)	NA	
LINCOLN, CA (LINCOLN REGIONAL) ALTIMETER SETTING MINIMUMS				
S-7	2200-1	669 (700-1)	NA	
CIRCLING	2440-1¼ 909 (1000-1¼)	2480-1¼ 949 (1000-1¼)	NA	

NA

Circling southeast runway 4-22 not authorized.

MISSED APPROACH: Climb to 3400 direct SXC VORTAC and hold.

ASOS 120.675	SOCAL APP CON 127.4 323.275	UNICOM 122.7 (CTAF)
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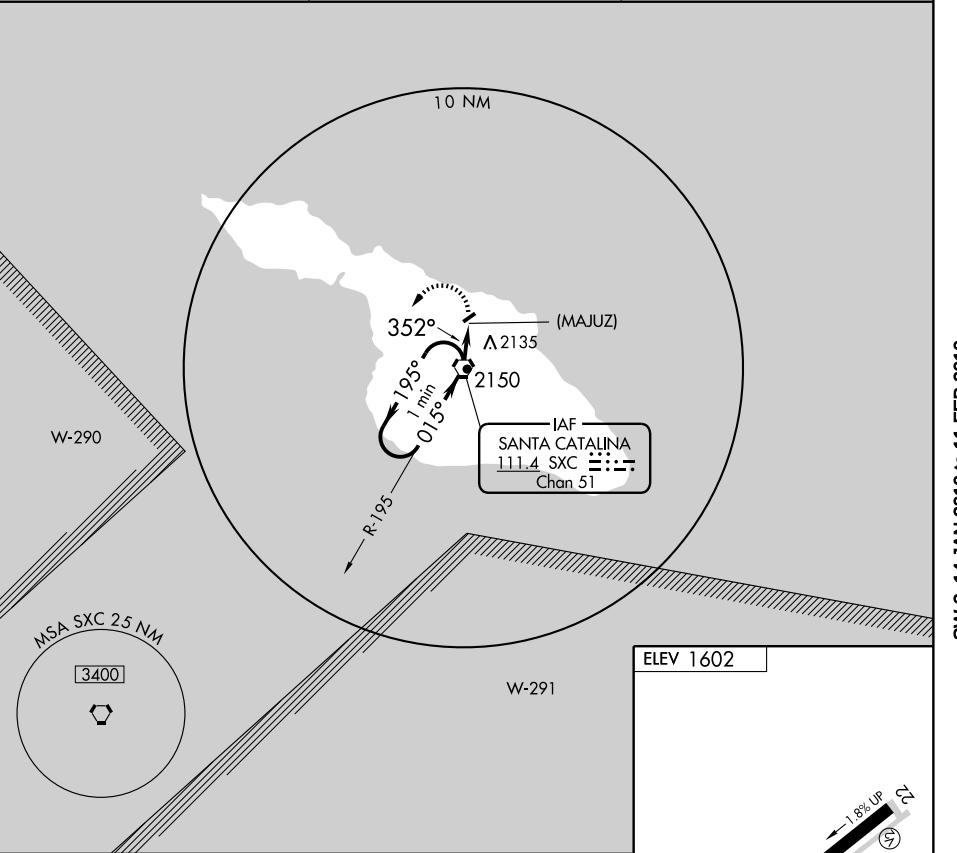
3400	SXC 111.4	RIGLI SXC 5	Remain within 10 NM
(MAFPI) SXC 2.8	2300	352°	172°
1 NM	2.2 NM		
CATEGORY	A	B	C
CIRCLING	2220-1	618 (700-1)	NA

REIL Rwy 22
MIRL Rwy 4-22

NA

MISSED APPROACH: Climbing left turn to 3400 in SXC
VORTAC holding pattern.

ASOS 120.675	SOCAL APP CON 127.4 323.275	UNICOM 122.7 (CTAF)
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One Minute Holding Pattern

3400
←195°
015°→
015°→
3100
352°

VORTAC

(MAJUZ) SXC 1.6

1.6 NM

3400
SXC
111.4

ELEV 1602

REIL Rwy 22
MIRL Rwy 4-22

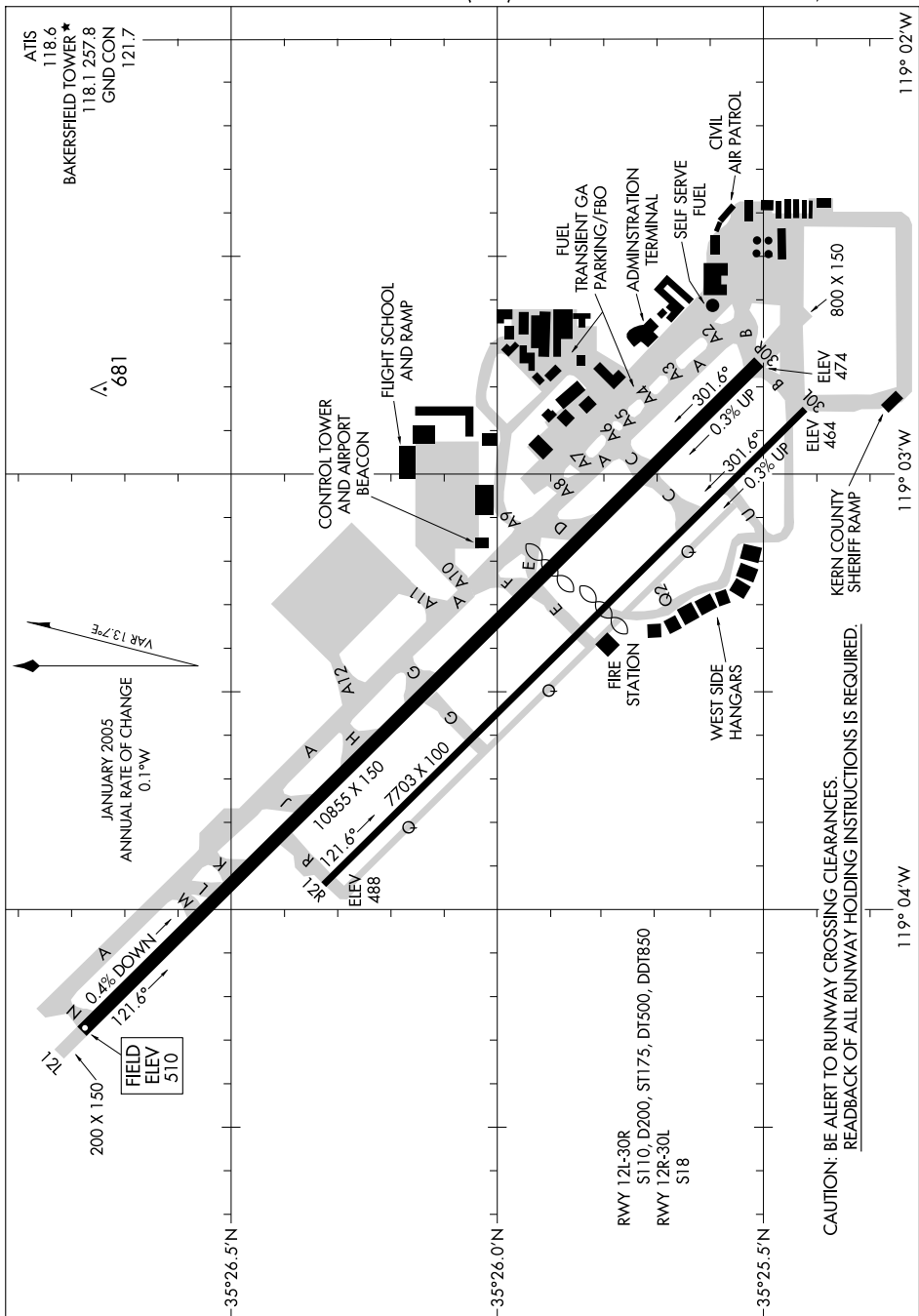
CATEGORY	A	B	C	D	FAF to MAP 1.6 NM						
CIRCLING	2560-1¼ 958 (1000-1¼)	2560-1½ 958 (1000-1½)	NA			Knots	60	90	120	150	180
						Min:Sec	1:36	1:04	0:48	0:38	0:32

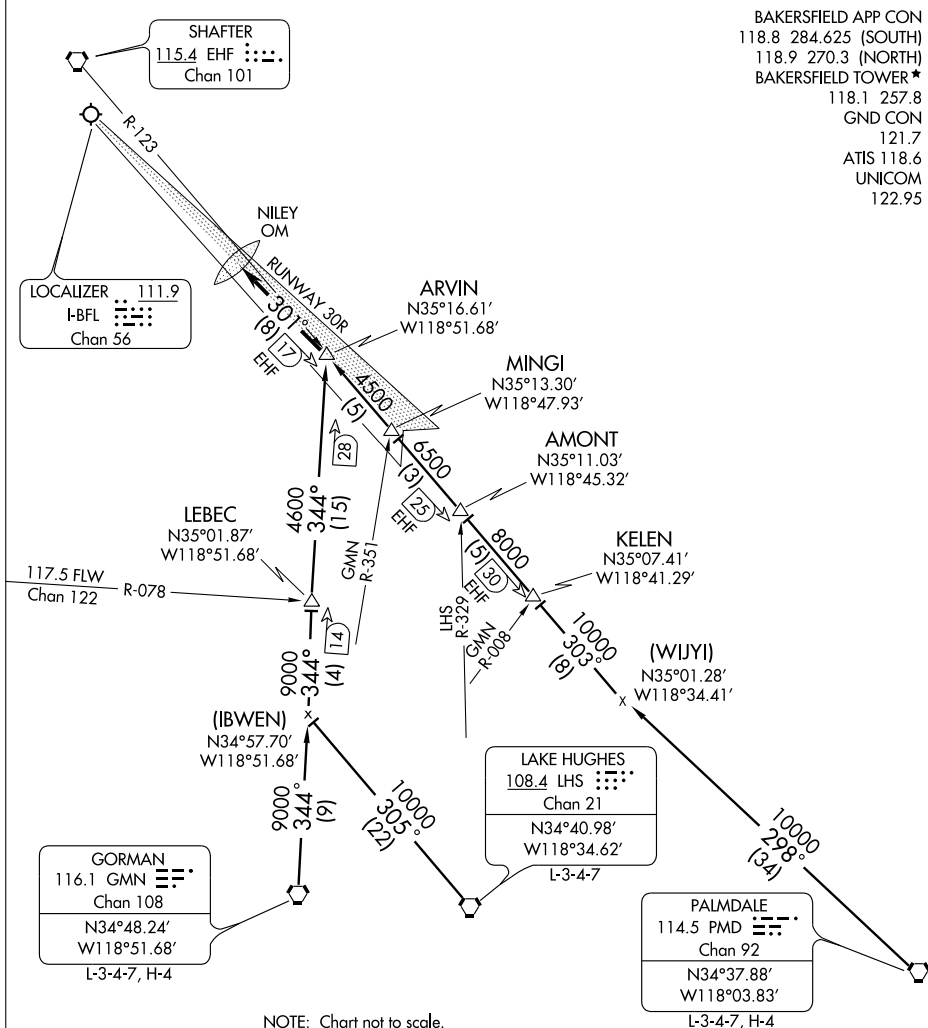
SW-3, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-36 (FAA)

BAKERSFIELD/MEADOWS FIELD (BFL)
BAKERSFIELD, CALIFORNIA





GORMAN TRANSITION (GMN.ARVIN1): From over GMN VORTAC via GMN R-344 to ARVIN INT. Thence....

LAKE HUGHES TRANSITION (LHS.ARVIN1): From over LHS VORTAC via LHS R-305 and GMN R-344 to ARVIN INT. Thence....

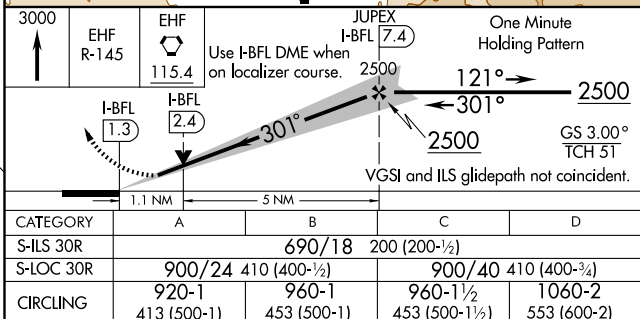
PALMDALE TRANSITION (PMD.ARVIN1): From over PMD VORTAC via PMD R-298 and EHF R-123 to ARVIN INT. Thence....

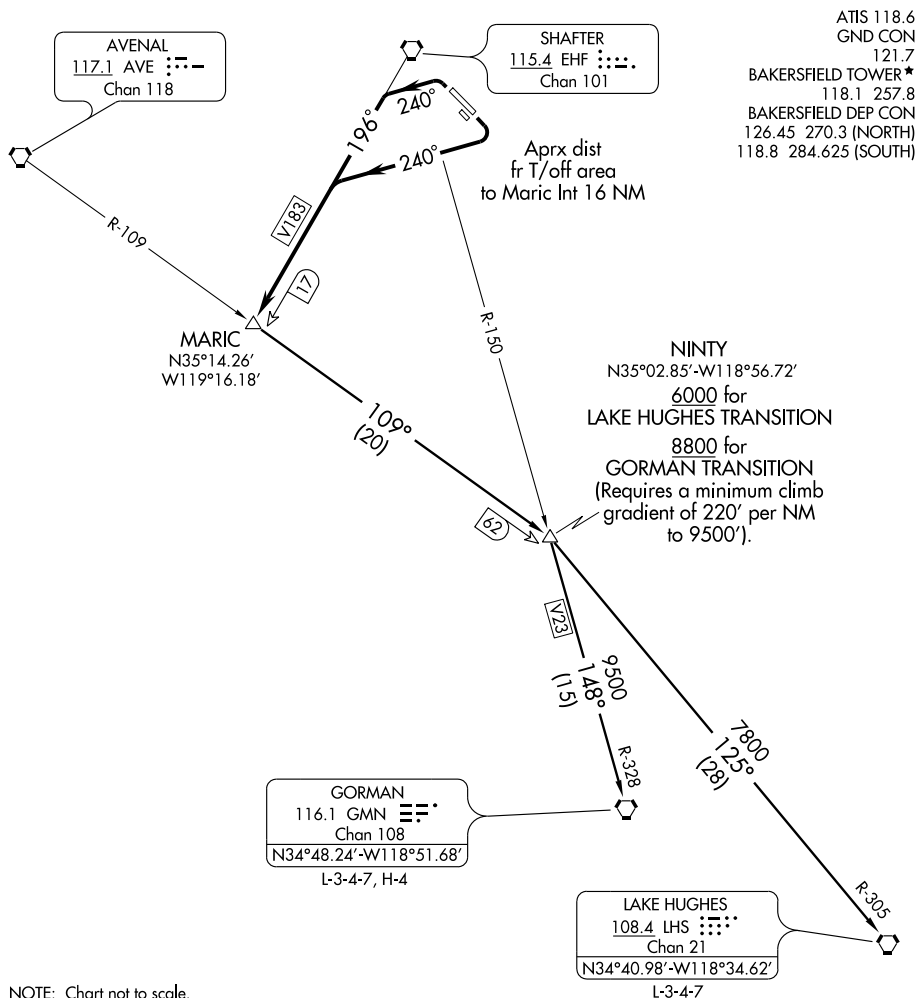
....From over ARVIN INT via the I-BFL ILS 30R localizer to NILEY OM.

LOST COMMUNICATIONS: From over ARVIN INT via I-BFL ILS 30R to NILEY OM.

BAKERSFIELD/MEADOWS FIELD (BFL)

MISSED APPROACH: Climb to 3000 to intercept EHF R-145 to EHF VORTAC and hold, continue climb-in-hold to 3000.

UNICOM
122.95



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12L/R: Turn right heading 240°. Thence....

TAKE-OFF RUNWAYS 30L/R: Turn left heading 240°. Thence....

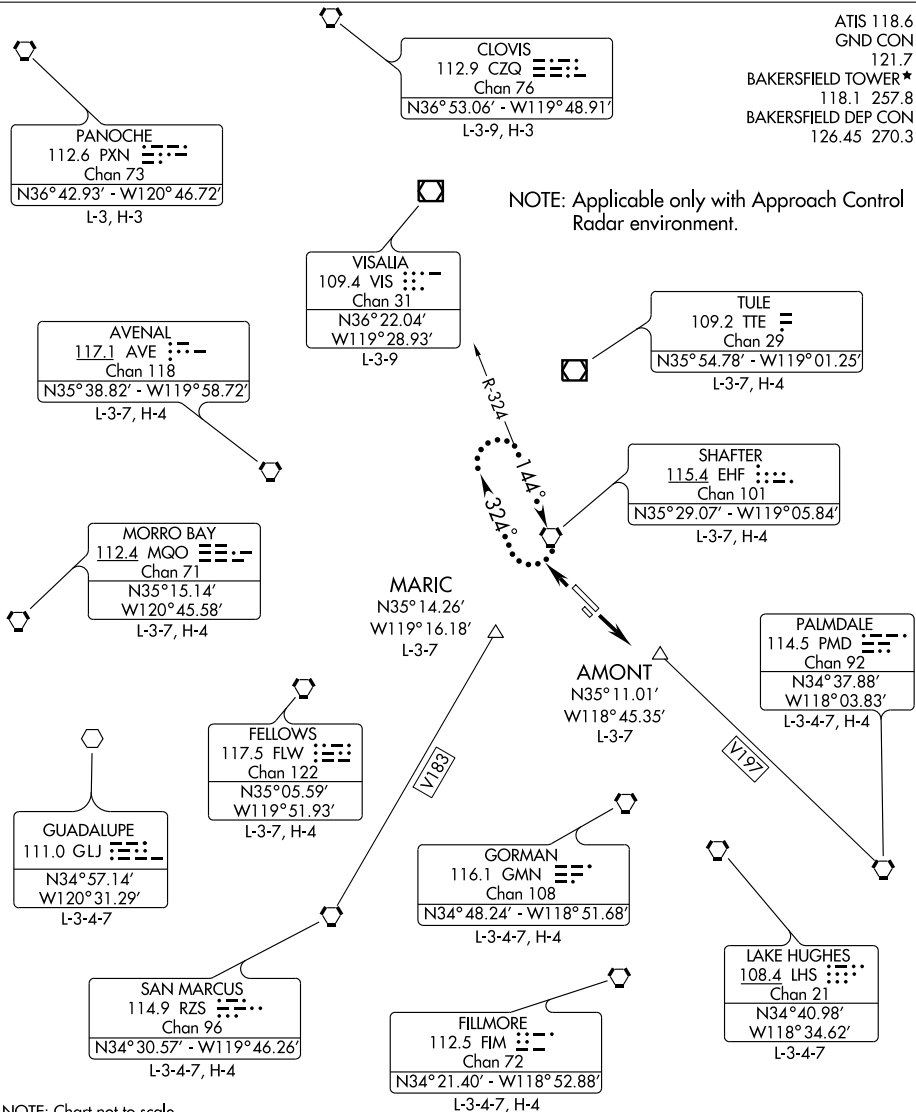
....intercept and proceed via the EHF R-196 to MARIC INT. Thence via (transition) or (assigned route).

GORMAN TRANSITION (MARIC3.GMN): From over MARIC INT via AVE R-109 and GMN R-328 to GMN VORTAC.

LAKE HUGHES TRANSITION (MARIC3.LHS): From over MARIC INT via AVE R-109 and LHS R-305 to LHS VORTAC.

(MEADO) 08213 MEADOWS ONE DEPARTURE

SL-36 (FAA) BAKERSFIELD/MEADOWS FIELD (BFL)
BAKERSFIELD, CALIFORNIA



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Fly runway heading for vector to assigned route/fix. Expect clearance to requested altitude five minutes after departure.

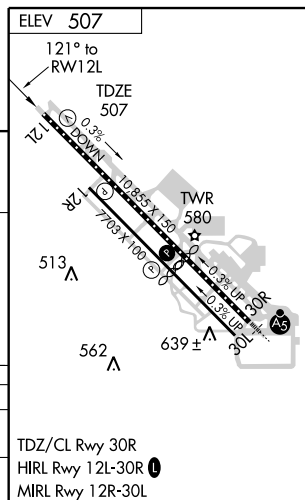
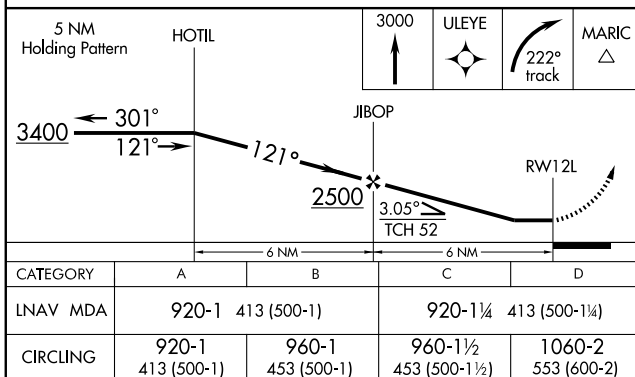
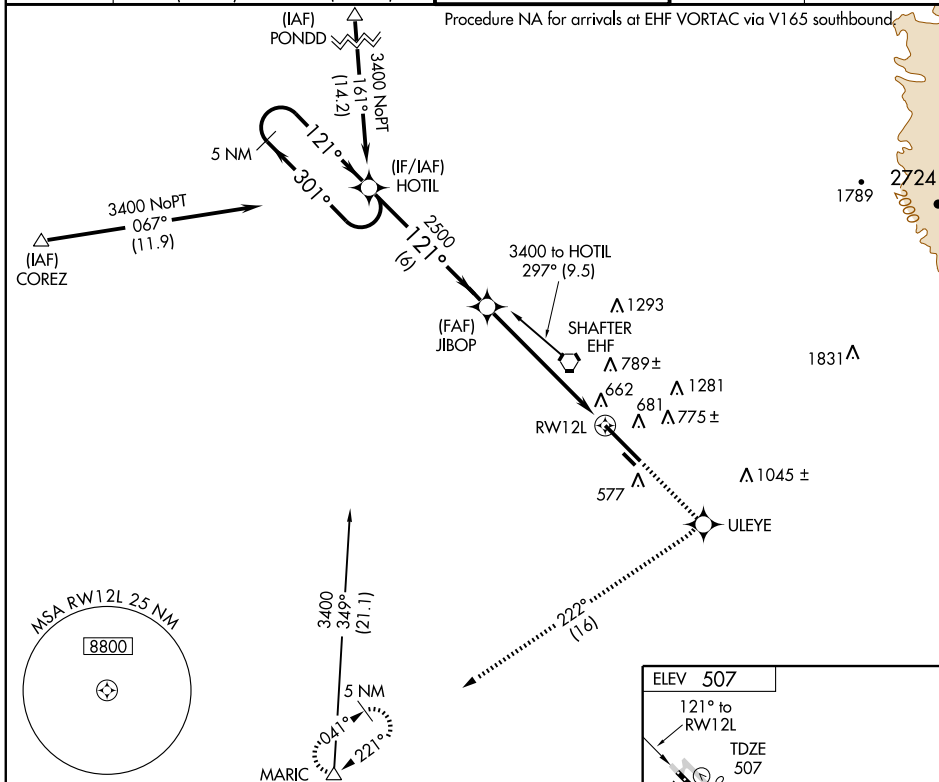
LOST COMMUNICATIONS: If no radio contact for two minutes, proceed direct EHF VORTAC and hold. Climb in holding pattern to expected altitude prior to proceeding on course.

RNAV (GPS) RWY 12L
BAKERSFIELD/MEADOWS FIELD (BFL)

MISSED APPROACH: Climb to 3000 direct ULEYE and right turn via 222° track to MARIC and hold.

ATIS 118.6	BAKERSFIELD APP CON★ 118.8 284.625 (SOUTH) 118.9 270.3 (NORTH)	BAKERSFIELD TOWER★ 118.1 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Procedure NA for arrivals at EHF VORTAC via V165 southbound

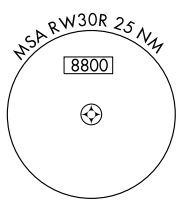
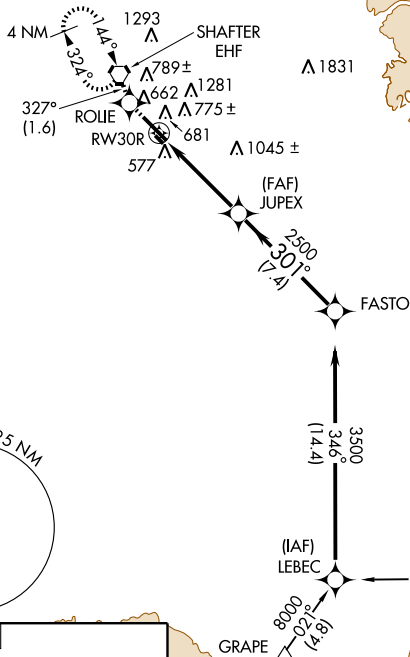


RNAV (GPS) RWY 30R

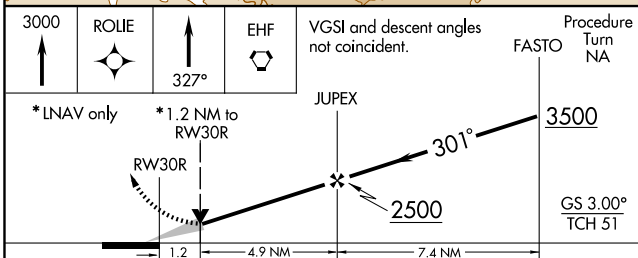
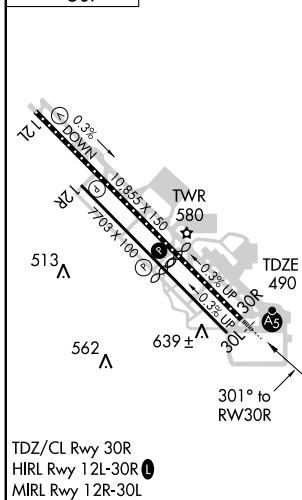
MALSR

MISSED APPROACH: Climb to 3000 direct ROLIE WP and via 327° track to EHF VORTAC and hold.

Procedure NA for arrivals at GRAPE via V23 southbound.



ELEV 507



CATEGORY	A	B	C	D
GLS PA DA	NA			
INAV/ VNAV DA	940/50 450 (500-1)			
INAV MDA	940/24 450 (500-½)	940/40 450 (500-¾)	940/50 450 (500-1)	
CIRCLING	940-1½ 433 (500-1½)	960-1½ 453 (500-1½)		1060-2 553 (600-2)

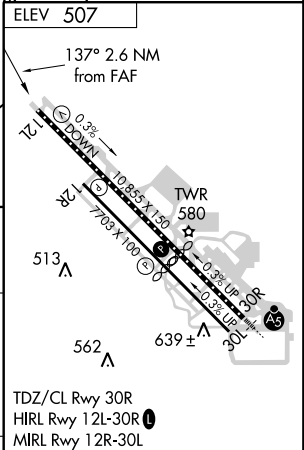
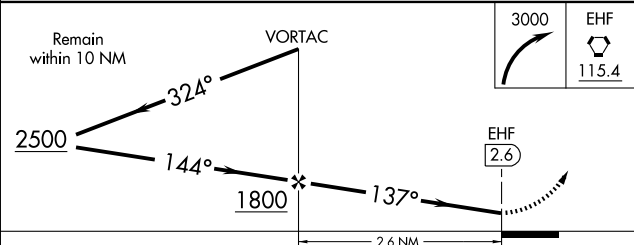
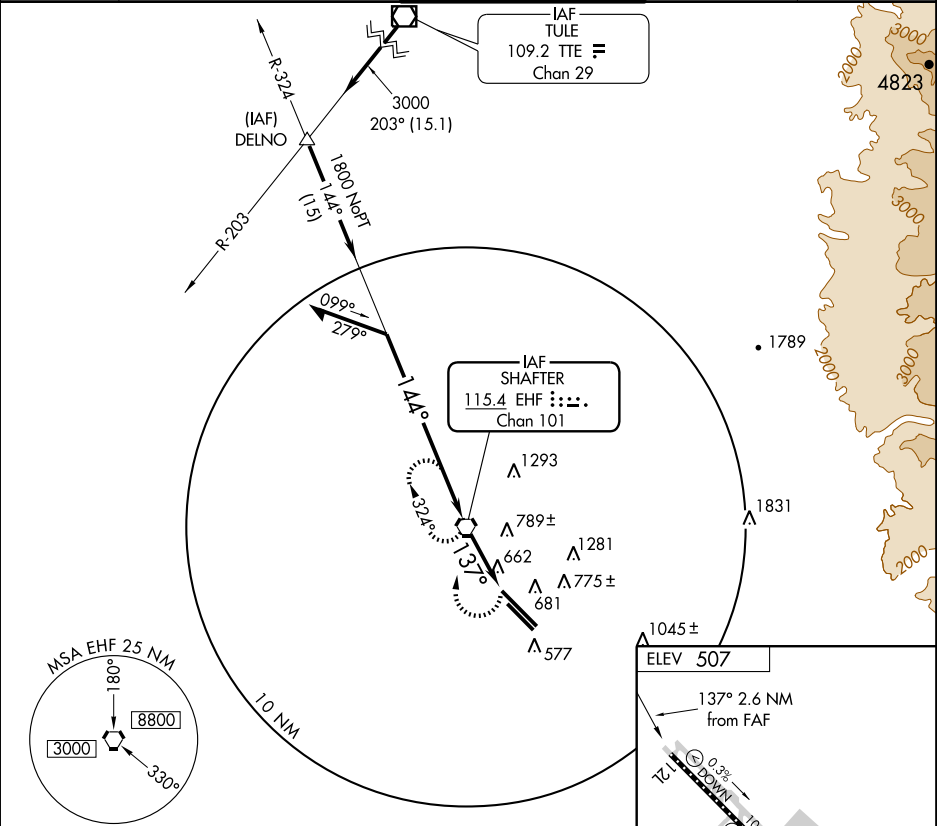
VORTAC EHF 115.4 Chan 101	APP CRS 137°	Rwy Idg TDZE Apt Elev N/A N/A 507
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VOR-A

BAKERSFIELD/MEADOWS FIELD (BFL)

⚠ Circling not authorized northeast of Rwy 12L-30R.	MISSED APPROACH: Climbing right turn to 3000 direct EHF VORTAC and hold.
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ATIS 118.6	BAKERSFIELD APP CON 118.8 284.625 118.9 270.3 (SOUTH) (NORTH)	BAKERSFIELD TOWER ★ 118.1 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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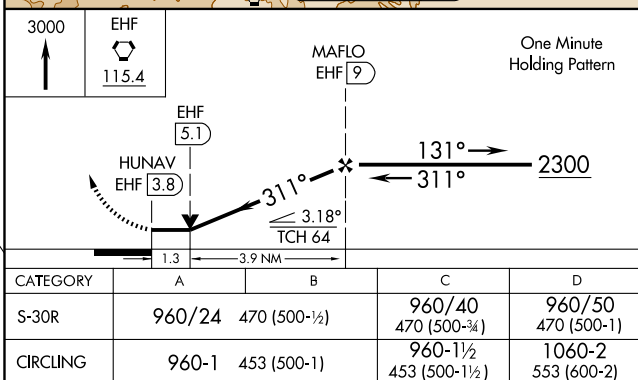
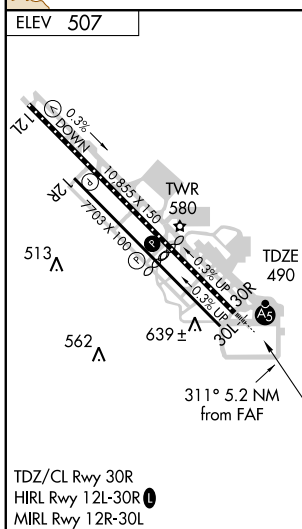
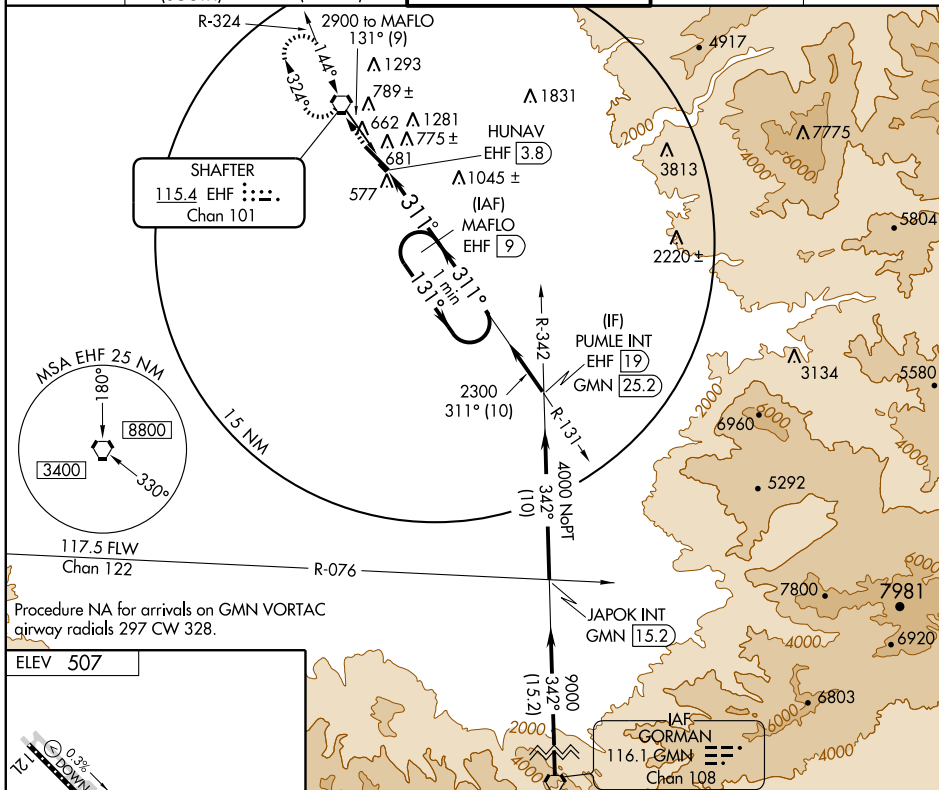
CATEGORY	A	B	C	D	FAF to MAP 2.6 NM					
CIRCLING	1000-1	493 (500-1)	1000-1½ 493 (500-1½)	1060-2 553 (600-2)	Knots	60	90	120	150	180
					Min:Sec	2:36	1:44	1:18	1:02	0:52

VOR/DME RWY 30R
BAKERSFIELD/MEADOWS FIELD (BFL)

- MALSR

MISSED APPROACH: Climb to 3000 direct EHF VORTAC and hold, continue climb-in-hold to 3000.

ATIS	BAKERSFIELD APP CON		BAKERSFIELD TOWER *	GND CON	UNICOM
118.6	118.8	284.625 118.9 270.3	118.1(CTAF) 0 257.8	121.7	122.95
	(SOUTH)	(NORTH)			



ATIS 118.6
GND CON
121.7
BAKERSFIELD TOWER *
118.1 257.8
BAKERSFIELD DEP CON
126.45 270.3 (NORTH)
118.8 284.625 (SOUTH)

TULE
109.2 TTE =
Chan 29

SHAFTER
115.4 EHF ::::.
Chan 101
N35°29.07'-W119°05.84'

067°
(11)

Aprx dist fr T/off area
to EHF VORTAC 4 NM

R 1A7

WRING
N35°30.79'
W118°52.50'
5400
L-3-7

NOTE: This SID requires a minimum climb
gradient of 345' per NM to 5400'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12L/R: As soon as practical after take-off, make climbing
right turn direct EHF VORTAC. Thence....

TAKE-OFF RUNWAYS 30L/R: Climb direct EHF VORTAC. Thence....

....From over EHF VORTAC via EHF R-067 to WRING INT. Then via (assigned route).

APP CRS 341°	Rwy Idg TDZE Apt Elev	4000 376 376
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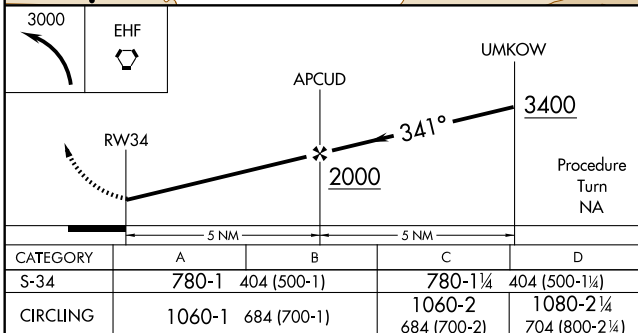
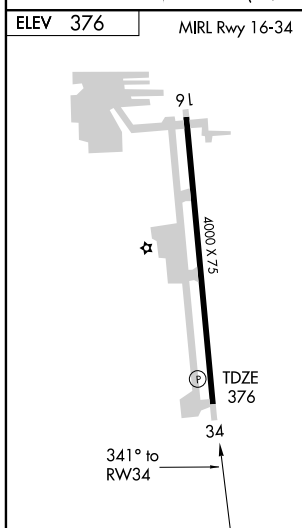
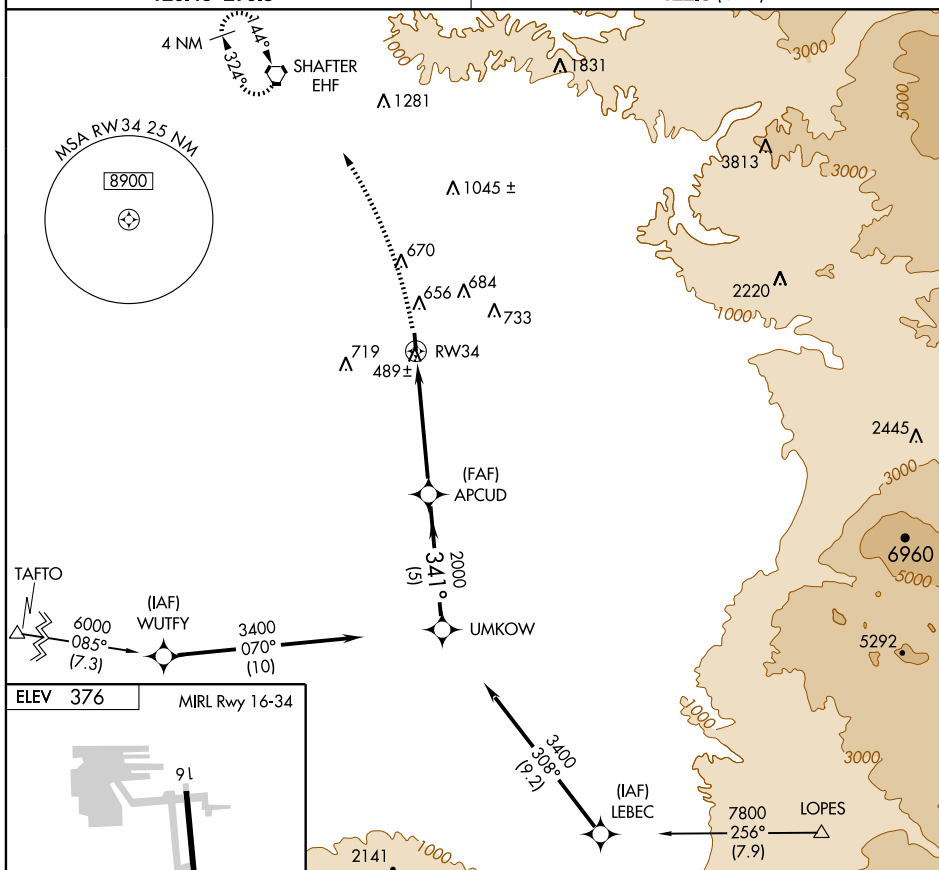
GPS RWY 34

BAKERSFIELD MUNI (L45)

T	Use Meadows Field altimeter setting.
A NA	

MISSED APPROACH: Climbing left turn to 3000 direct EHF VORTAC and hold.

BAKERSFIELD APP CON ★
126.45 270.3

UNICOM
122.8 (CTAF)

▼

▲ NA

Use Meadows Field altimeter setting.

MISSED APPROACH: Climb to 3000 direct EHF VORTAC and hold.

BAKERSFIELD APP CON ★
126.45 270.3

UNICOM
122.8 (CTAF)

SHAFTER
115.4 EHF ::::.
Chan 101

MSA EHF 25 NM
180°
330°
8800
3000

ELEV 376 MRL Rwy 16-34

91
4000 x 75
TDZE 376
34

320° 5.9 NM from FAF

3000 EHF 115.4

EHF 17

EHF 21

140°

320°

3600

3200

2200

5.9 NM

4 NM

Remain within 10 NM

CATEGORY	A	B	C	D
S-34	980-1 604 (700-1)		980-1¼ 604 (700-1¼)	980-2 604 (700-2)
CIRCLING	1060-1 684 (700-1)		1060-2 684 (700-2)	1080-2¼ 704 (800-2¼)

APP CRS	Rwy Idg	4651
266°	TDZE	4896
	Apt Elev	4900

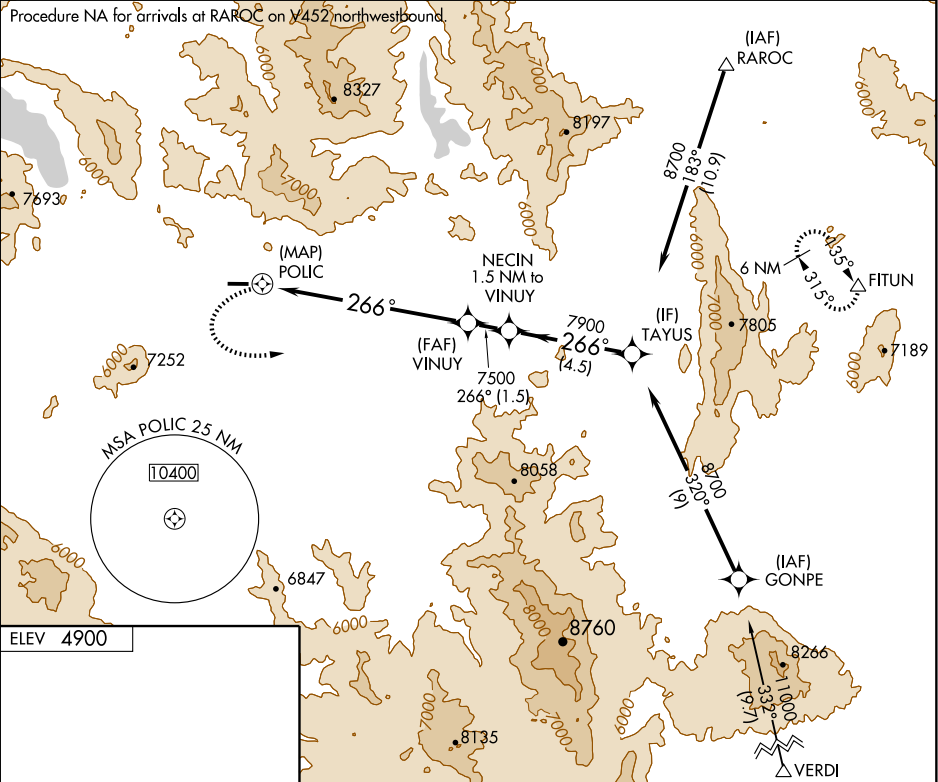
RNAV (GPS) Y RWY 25

BECKWORTH/NERVINO (002)

▼ DME/DME RNP-0.3 NA.
▲ NA Use Reno/Stead altimeter setting; if not received, use Reno/Tahoe Intl altimeter setting and increase all MDAs 180 feet.
Circling NA at night

MISSED APPROACH: Climbing left turn to 10000 direct FITUN and hold.

RENO/STEAD AWOS-3 135.175	RENO APP CON 126.3	UNICOM 122.8 (CTAF) ①
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ELEV 4900

TDZE 4896

4651 X 75

25

MIRL Rwy 7-25 **①**

10000	FITUN	NECIN 1.5 NM to VINUY	TAYUS	8700
		VINUY	7900	Procedure Turn NA
	POLIC	7500	266°	
		≤3.02° TCH 44		
	0.5	7.5 NM	1.5 NM	4.5 NM
CATEGORY	A	B	C	D
LNAV MDA	7300-1¼ 2404 (2400-1¼)	7300-1½ 2404 (2400-1½)	7300-3	2404 (2400-3)
CIRCLING	7300-1¼ 2400 (2400-1¼)	7300-1½ 2400 (2400-1½)	7300-3	2400 (2400-3)

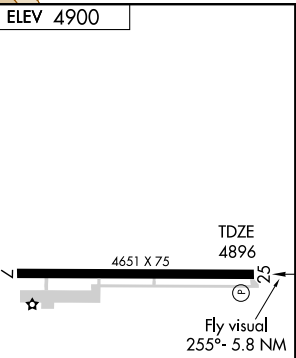
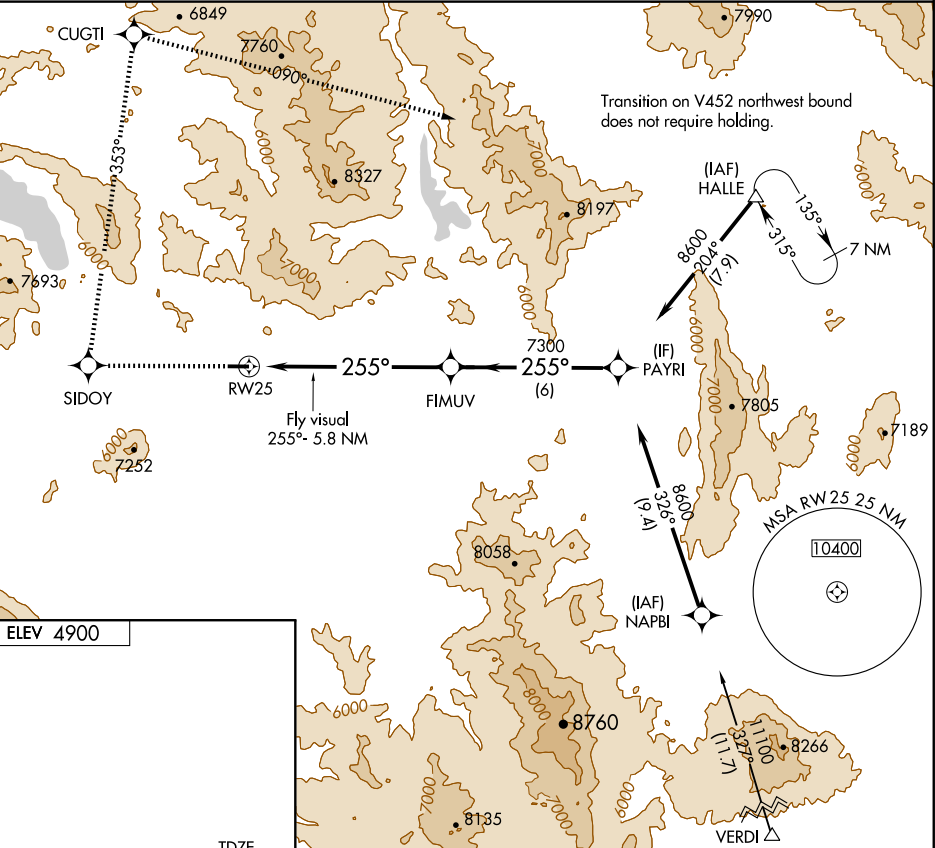
WAAS CH 49203 W25A	APP CRS 255°	Rwy Idg TDZE Apt Elev 4651 4896 4900
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RNAV (GPS) Z RWY 25
BECKWOURTH/NERVINO (002)

- Use Reno/Stead altimeter setting; if not received, use Reno/Tahoe Intl altimeter setting and increase DA 166 feet.
- DME/DME RNP -0.3 NA.
- Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 direct SIDOY and right turn via 353° track to CUGTI, and right turn 090° track to HALLE and hold.

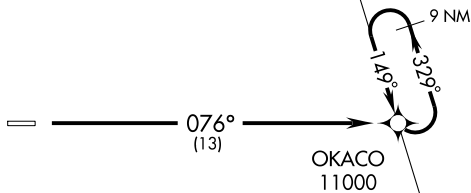
RENO/STEAD AWOS-3 135.175	RENO APP CON 126.3	UNICOM 122.8 (CTAF) 1
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10000	SIDOY	CUGTI	HALLE	VGSI and RNAV glidepath not coincident	PAYRI	Procedure Turn NA
		Fly visual 255°- 5.8 NM				
		RW25				
		7.2 NM	6 NM			
CATEGORY	A	B	C	D		
LPV	DA	6787-2	1891 (1900-2)	6787-3	1891 (1900-3)	

OKACO ONE DEPARTURE (RNAV) (OBSTACLE)

LOS ANGELES CENTER
126.35 290.2
UNICOM 122.725



NOTE: TAKE-OFF MINIMUMS: Rwy 8: 1200-2 or standard with minimum climb of 282' per NM to 8000'.

NOTE: For use by slant E, F, and G equipped aircraft only.

NOTE: 7439' MSL trees 2.5 NM from departure end of runway, 2400' right of centerline.

NOTE: 1. GPS required
2. RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb via course 076° to OKACO WP; maintain 11,000' or as assigned by ATC. If not at 11,000' or at assigned cruising altitude upon reaching OKACO WP, climb in holding pattern (hold NW, LT, 149° inbound), unless otherwise advised by ATC.

APP CRS	Rwy Idg	5250
256°	TDZE	6748
	Apt Elev	6748

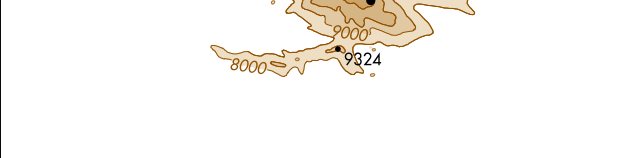
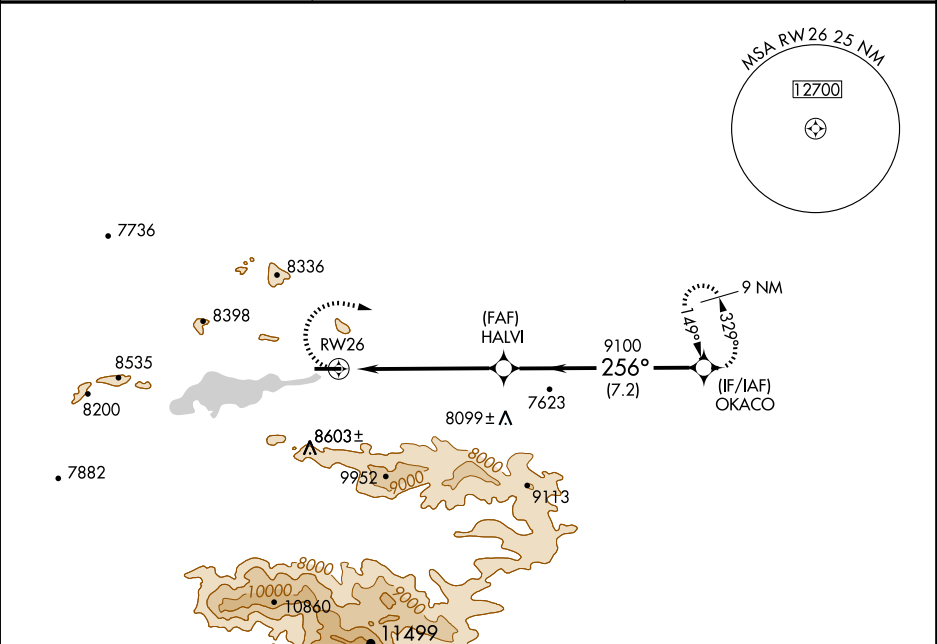
RNAV (GPS) RWY 26

BIG BEAR CITY (L35)

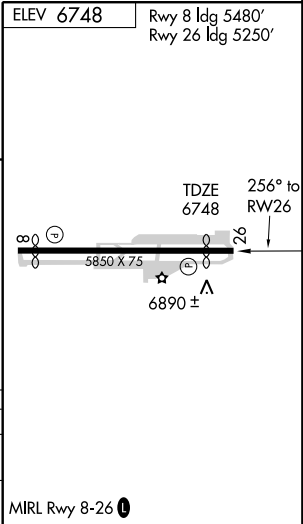
NA If local altimeter setting not received procedure NA.
Circling NA north of Rwy 8-26, procedure NA at night.
DME/DME RNP: 0.3 NA.

MISSED APPROACH: Climbing right turn to 11000 direct OKACO and hold.

AWOS-3 135.925	LOS ANGELES CENTER 126.35 290.2	UNICOM 122.725 (CTAF) 1
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11000	OKACO	VGSI and descent angles not coincident				OKACO
CATEGORY	A		B		C	D
LNAV MDA	8680-1¼ 1932 (2000-1¼)		8680-1½ 1932 (2000-1½)		NA	
CIRCLING	8680-1¼ 1932 (2000-1¼)		8680-1½ 1932 (2000-1½)		NA	



▼

▲

Visibility reduction by helicopters NA.

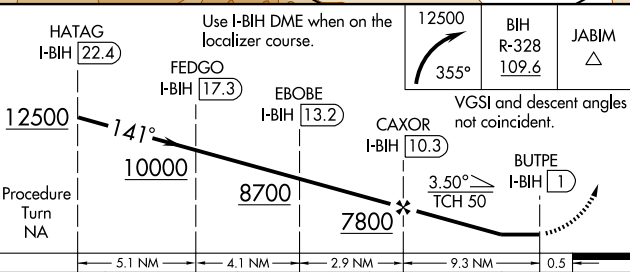
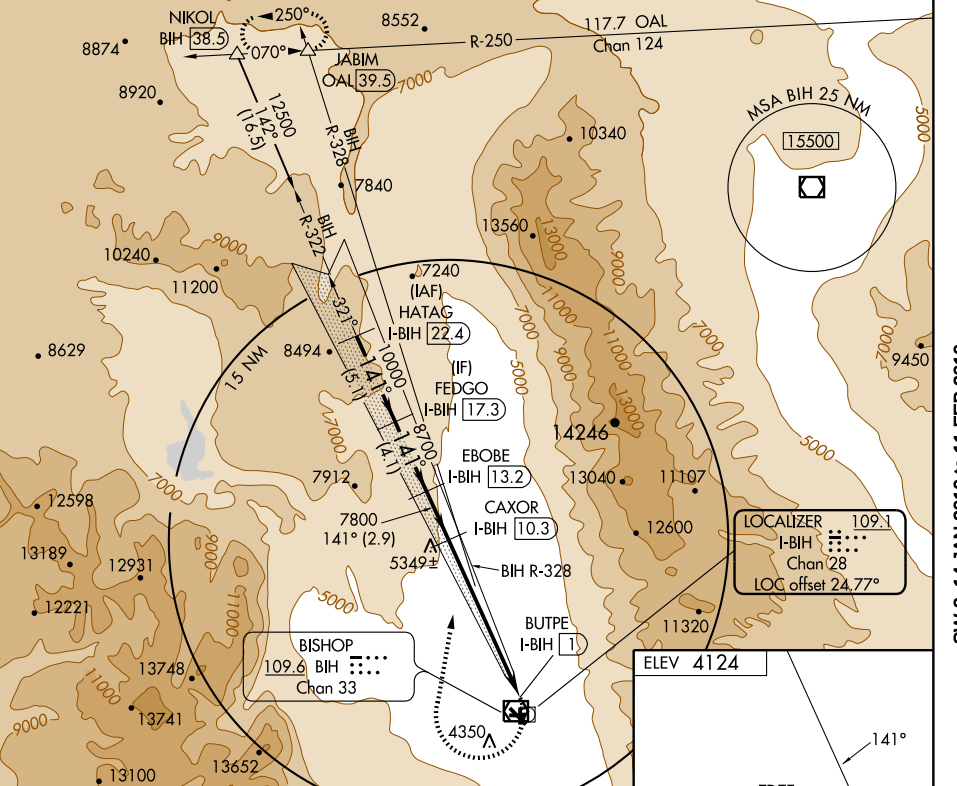
MISSED APPROACH: Climbing right turn to 12500
via heading 355° and via BIH VOR/DME R-328 to
JABIM INT/OAL 39.5 DME and hold.

ASOS
119.025

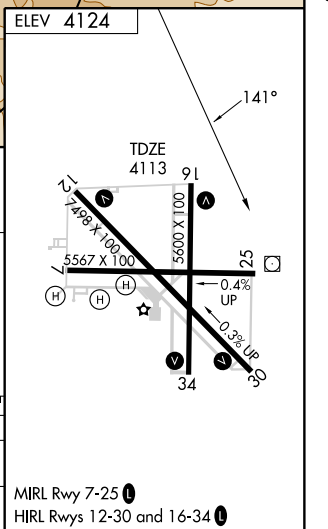
OAKLAND CENTER
125.75 284.65

RIVERSIDE RADIO
122.6

UNICOM
123.0 (CTAF) ①



CATEGORY	A	B	C	D
S-16	6340-1¼ 2227 (2300-1¼)	6340-1½ 2227 (2300-1½)	6340-3	2227 (2300-3)
CIRCLING	6340-1¼ 2216 (2300-1¼)	6340-1½ 2216 (2300-1½)	6340-3	2216 (2300-3)



SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	7498
120°	TDZE	4123
	Apt Elev	4124

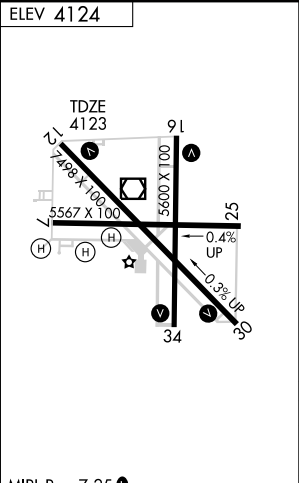
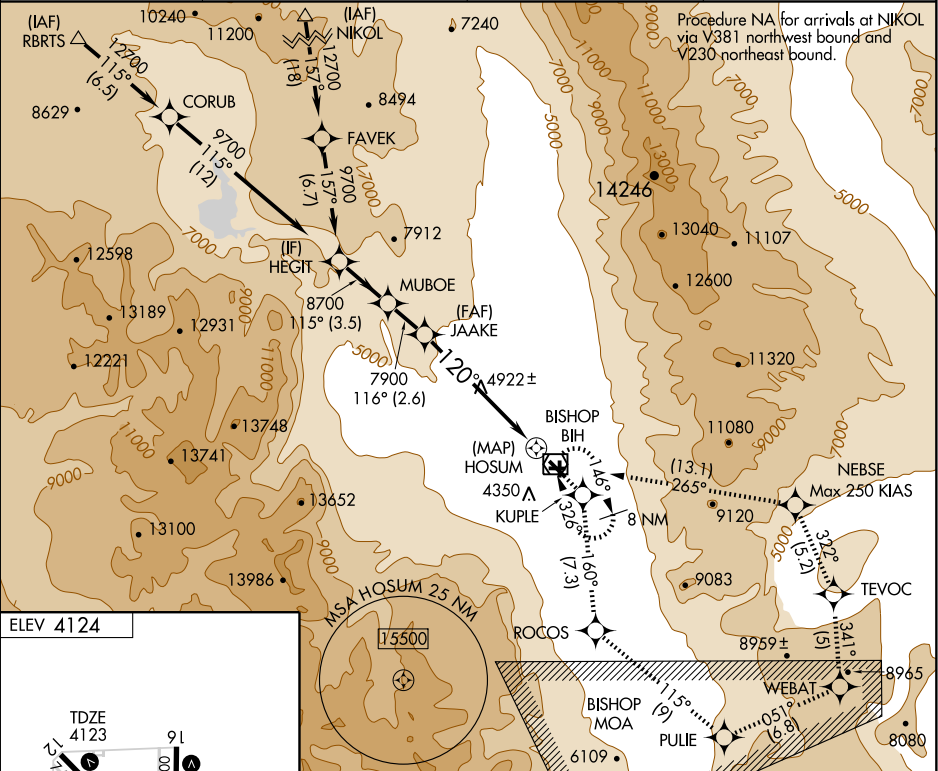
RNAV (GPS) Y RWY 12

BISHOP / EASTERN SIERRA RGNL (BIH)

When local altimeter setting not received, procedure NA.
Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA

MISSED APPROACH: (Do not exceed 250 KIAS until NEBSE)
Climb to 13000 direct KUPLE, and 160° track to ROCOS,
and 115° track to PULIE, and 051° track to WEBAT, and
341° track to TEVOC, and 322° track to NEBSE, and 265°
track to BIH VOR/DME and hold.

ASOS 119.025	OAKLAND CENTER 125.75 284.65	RIVERSIDE RADIO 122.6	UNICOM 123.0 (CTAF) 1
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VGSI and descent angles not coincident.					13000 ↑		KUPLE ✧		160° track		ROCOS ✧	
					HEGIT		MUBOE		JAAKE		HOSUM	
9700					115°		8700		116°		7900	
Procedure Turn NA							3.5 NM		2.6 NM		8.5 NM	
									3.68° TCH 48			
									120°			
											1 NM	
CATEGORY					A		B		C		D	
LNAV MDA					6600-1¼ 2477 (2500-1¼)		6600-1½ 2477 (2500-1½)		6600-3 2477 (2500-3)		NA	

APP CRS	Rwy Idg	7498
120°	TDZE	4123
	Apt Elev	4124

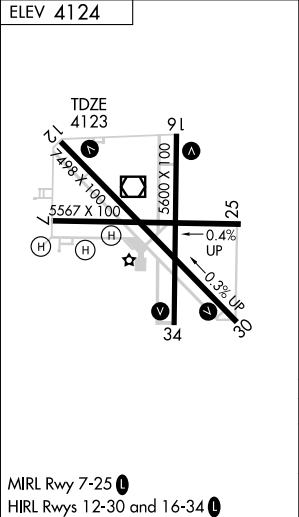
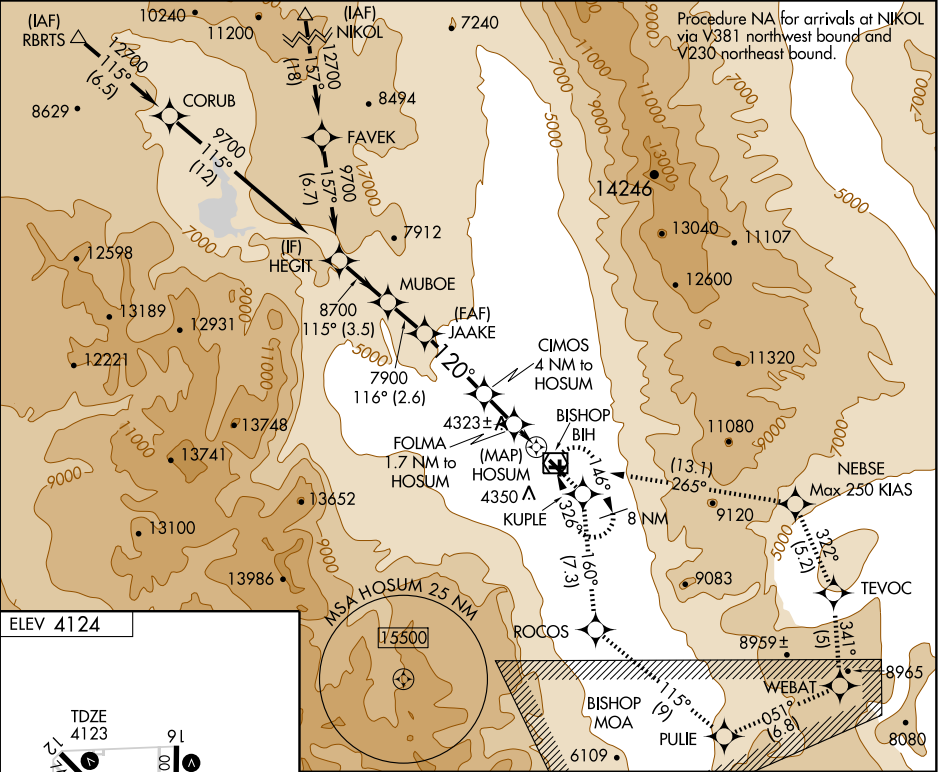
RNAV (GPS) Z RWY 12

BISHOP / EASTERN SIERRA RGNL (BIH)

- When local altimeter setting not received, procedure NA.
- *Missed approach requires minimum climb of 325 feet per NM to 11000; if unable, see RNAV (GPS) Y RWY 12.
- Visibility reduction by helicopters NA.
- DME/DME RNP-0.3 NA

MISSED APPROACH: (Do not exceed 250 KIAS until NEBSE)
Climb to 13000 direct KUPLE, and 160° track to ROCOS, and 115° track to PULIE, and 051° track to WEBAT, and 341° track to TEVOC, and 322° track to NEBSE, and 265° track to BIH VOR/DME and hold.

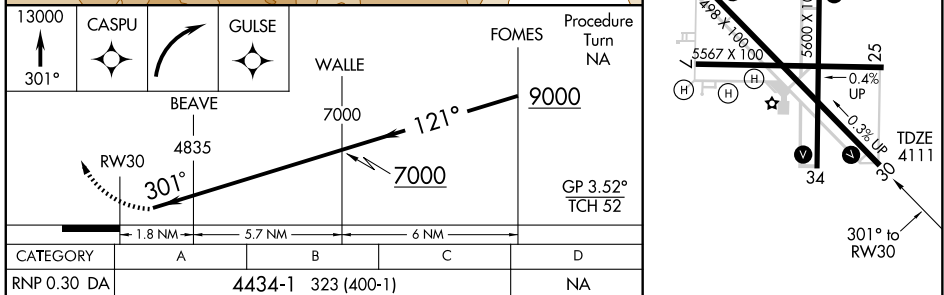
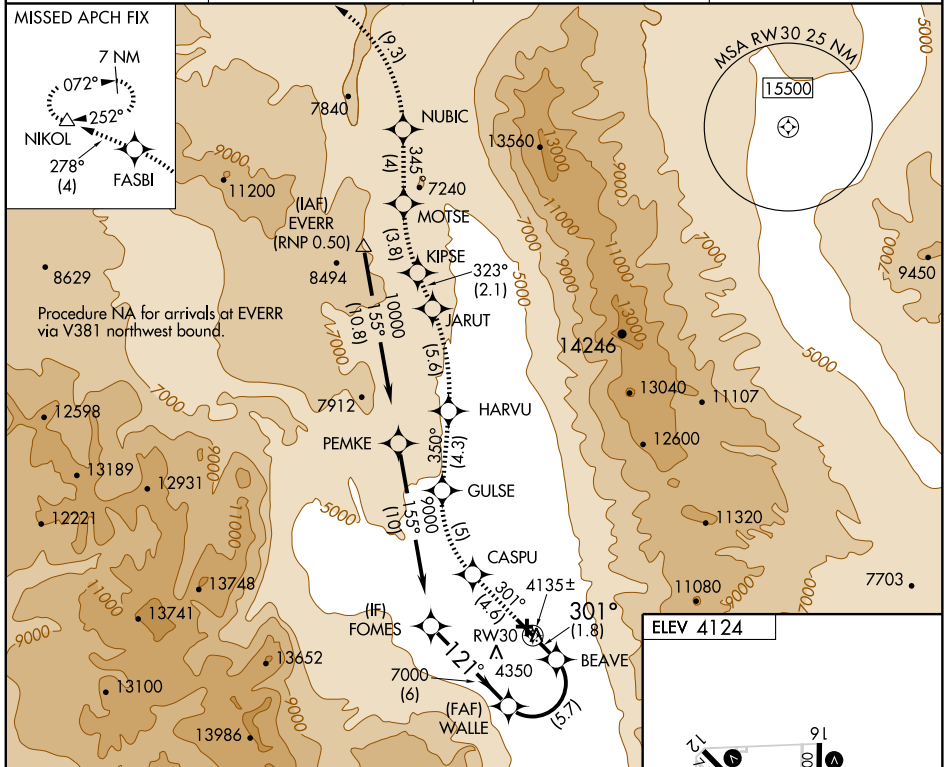
ASOS	OAKLAND CENTER	RIVERSIDE RADIO	UNICOM
119.025	125.75 284.65	122.6	123.0 (CTAF) 1



VGSI and descent angles not coincident.				
Procedure Turn NA	HEGIT	MUBOE	JAAKE	CIMOS 4 NM to HOSUM
9700	8700	7900	6100	5200
115°	116°	120°	160° track	051° track
3.5 NM	2.6 NM	4.5 NM	2.3 NM	1.7 NM
CATEGORY	A	B	C	D
LNNAV MDA*	4580-1¼	457 (500-1¼)		NA
CIRCLING	6420-1¼ 2296 (2300-1¼)	6420-1½ 2296 (2300-1½)	6420-3 2296 (2300-3)	NA

APP CRS 301°	Rwy Idg 7498 TDZE 4111 Apt Elev 4124	RF and GPS required. When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, procedure NA below -12°C (11°F) or above 38°C (100°F). Visibility reduction by helicopters NA.	MISSED APPROACH: Climb to 13000 via 301° track to CASPU, right turn to GULSE, 350° track to HARVU, left turn to JARUT, 323° track to KIPSE, right turn to MOTSE, 345° track to NUBIC, left turn to FASBI, 278° track to NIKOL and hold.
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ASOS 119.025	OAKLAND CENTER 125.75 284.65	RIVERSIDE RADIO 122.6	UNICOM 123.0 (CTAF) 1
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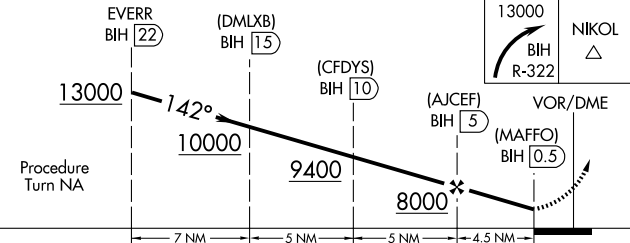
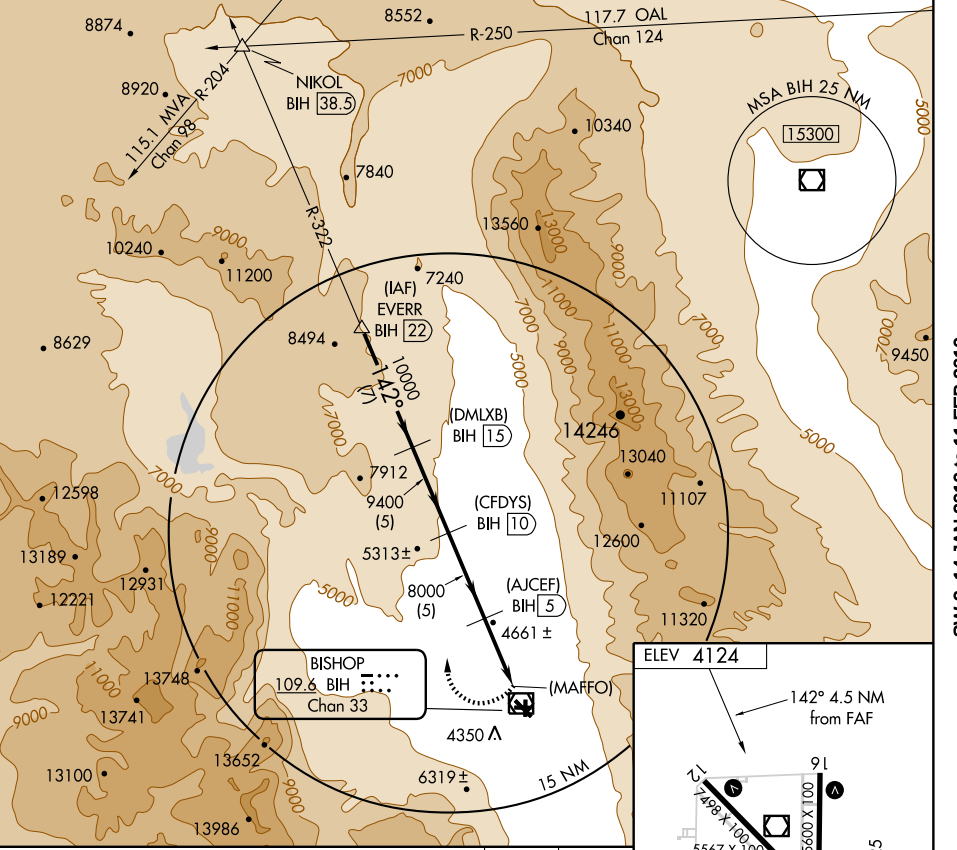


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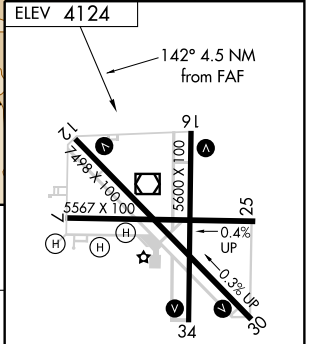
▲

MISSED APPROACH: Climbing right turn to 13000
via BIH R-322 to NIKOL INT/BIH 38.5 DME.

ASOS 119.025	OAKLAND CENTER 125.75 284.65	RIVERSIDE RADIO 122.6	UNICOM 123.0 (CTAF) U
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CATEGORY	A	B	C	D
CIRCLING	7300-1¼ 3176 (3200-1¼)	7300-1½ 3176 (3200-1½)	7300-3	3176 (3200-3)



MIRL Rwy 7-25 **U**
HIRL Rwy 12-30 and 16-34 **U**

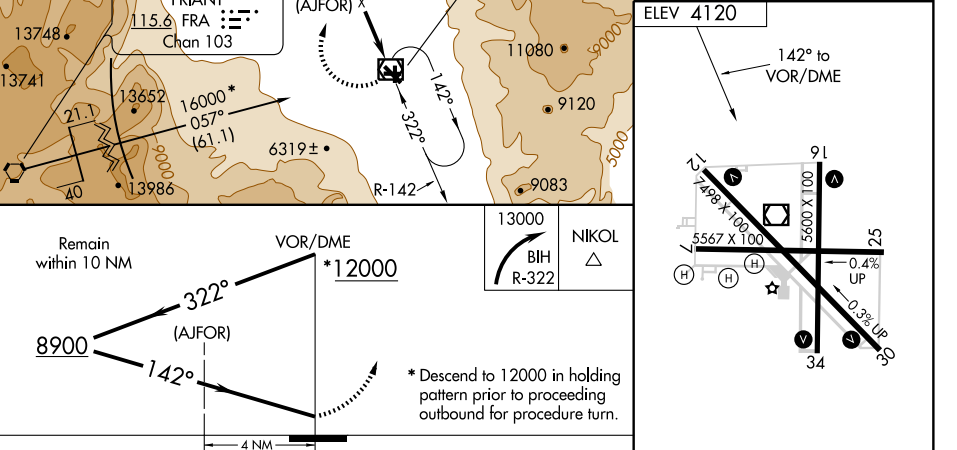
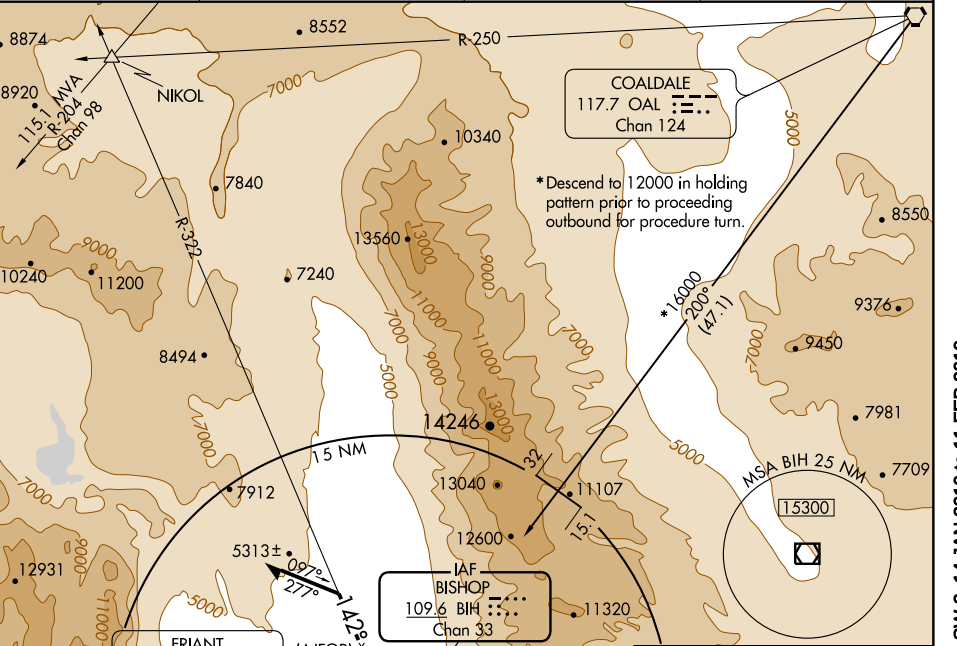
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If local altimeter setting not received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 13000 via BIH R-322 to NIKOL Int.

ASOS 119.025	OAKLAND CENTER 125.75 284.65	RIVERSIDE RADIO 122.6	UNICOM 123.0 (CTAF) U
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CATEGORY	A	B	C	D
CIRCLING	7400-1¼ 3280 (3300-1¼)	7400-1½ 3280 (3300-1½)	7400-3	3280 (3300-3)

MIRL Rwy 7-25 **U**

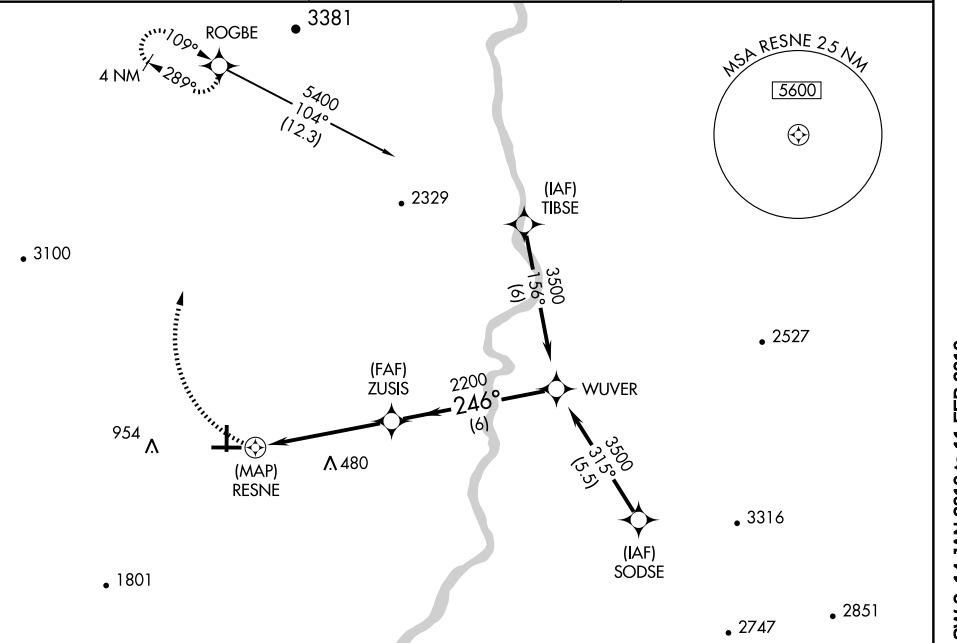
HIRL Rwy 12-30 and 16-34 **U**

SW-2, 14 JAN 2010 to 11 FEB 2010

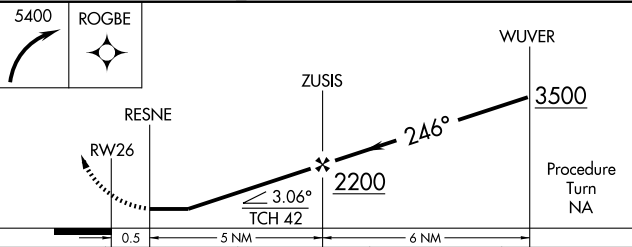
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 5400 direct ROGBE WP and hold.

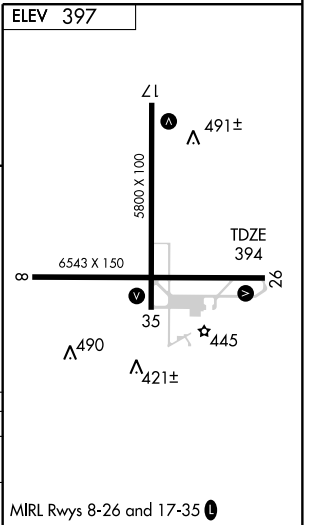
ASOS 120.175	LOS ANGELES CENTER 128.15 285.6	UNICOM 122.8 (CTAF) 1
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Procedure not authorized for arrival at SODSE on V16-V94 eastbound.



CATEGORY	A	B	C	D
LNAV MDA	760-1 366 (400-1)			760-1¼ 366 (400-1¼)
CIRCLING	840-1 443 (500-1)	860-1 463 (500-1)	960-1½ 563 (600-1½)	1260-2¾ 863 (900-2¾)



MIRL Rwy 8-26 and 17-35 1

SW-3, 14 JAN 2010 to 11 FEB 2010

AL-53 (FAA)

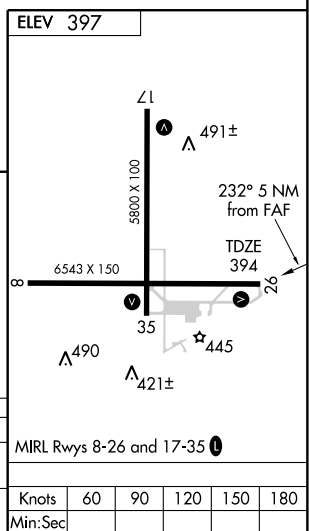
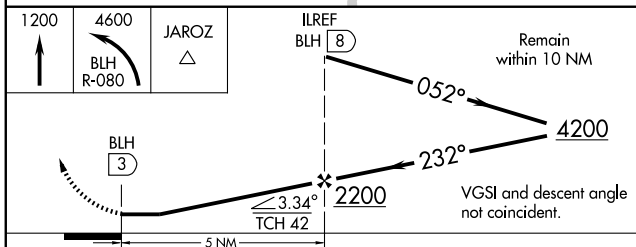
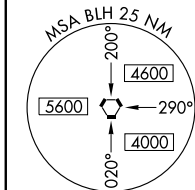
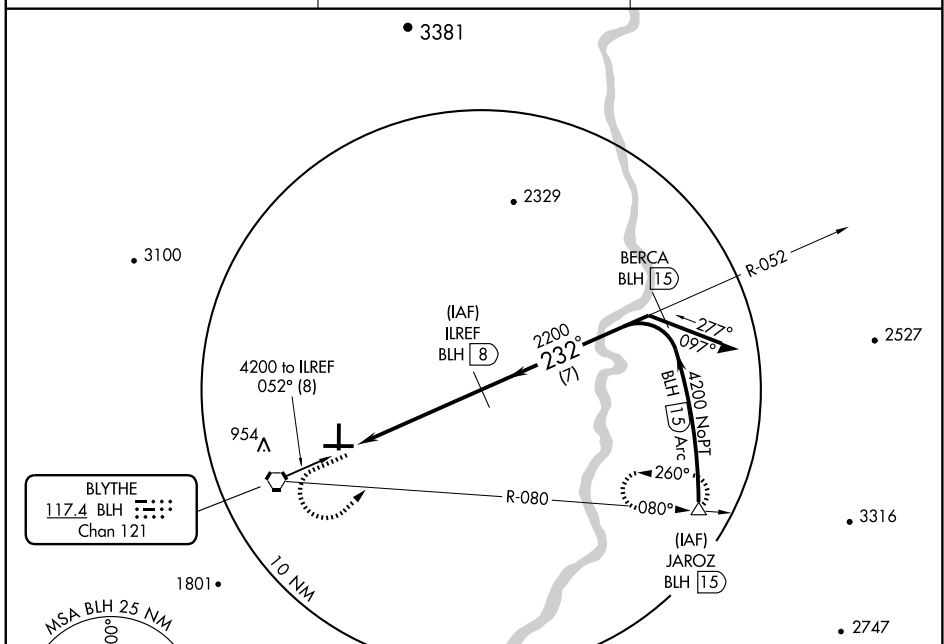
VORTAC BLH <u>117.4</u> Chan 121	APP CRS 232°	Rwy Idg 6543 TDZE 394 Apt Elev 397
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VOR/DME RWY 26
BLYTHE (BLH)

 	MISSED APPROACH: Climb to 1200 then climbing left turn to 4600 via BLH VORTAC R-080 to JAR0Z/15 DME and hold.
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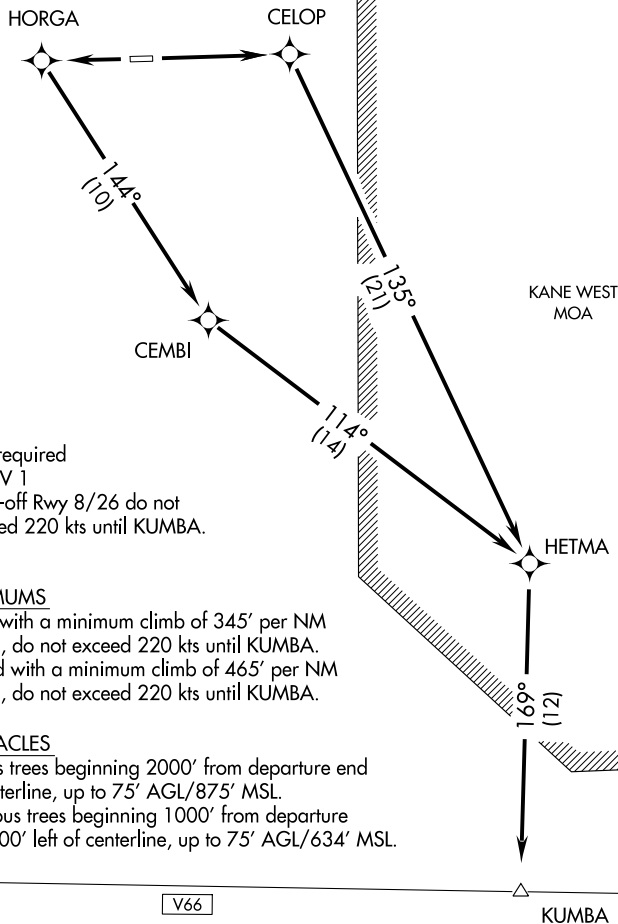
ASOS
120.175

LOS ANGELES CENTER
128.15 285.6

UNICOM
122.8 (CTAF) **L**

SW-3. 14 JAN 2010 to 11 FEB 2010

KUMBA ONE DEPARTURE (RNAV)

BORREGO VALLEY (L08)
BORREGO SPRINGS, CALIFORNIALOS ANGELES CENTER
128.6 291.7
CTAF 122.8
AWOS-1 126.575

- NOTE:
1. GPS required
 2. RNAV 1
 3. Take-off Rwy 8/26 do not exceed 220 kts until KUMBA.

TAKE-OFF MINIMUMS

Rwy 8: Standard with a minimum climb of 345' per NM to 5000, do not exceed 220 kts until KUMBA.

Rwy 26: Standard with a minimum climb of 465' per NM to 5000, do not exceed 220 kts until KUMBA.

TAKE-OFF OBSTACLES

Rwy 8: Numerous trees beginning 2000' from departure end of runway on centerline, up to 75' AGL/875' MSL.

Rwy 26: Numerous trees beginning 1000' from departure end of runway, 400' left of centerline, up to 75' AGL/634' MSL.

SW-3, 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

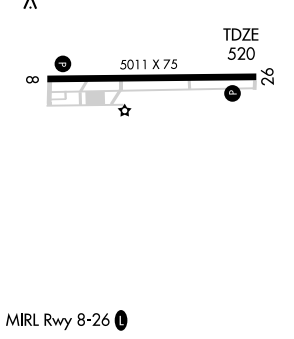
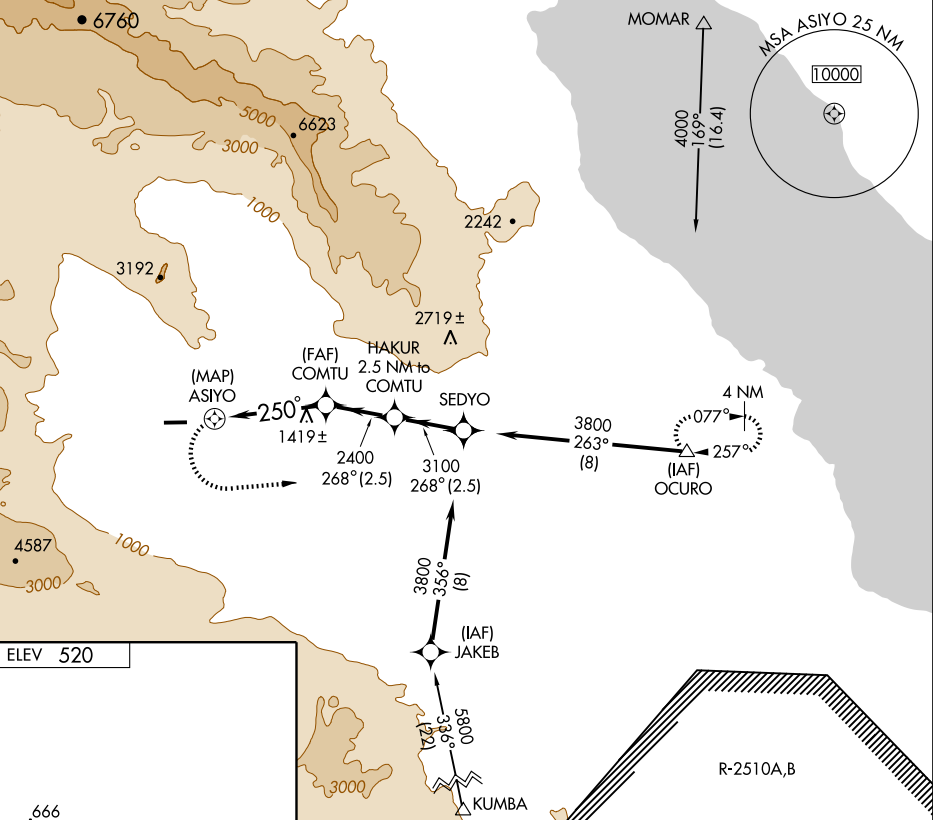
TAKE-OFF RUNWAY 8: Climb direct CELOP then via depicted route to KUMBA.

TAKE-OFF RUNWAY 26: Climb direct HORG, and left turn 144° track to CEMBI, then via depicted route to KUMBA.

NA If local altimeter setting not received, use Imperial County altimeter setting and increase all MDAs 580 feet.
Circling not authorized south of Rwy 8-26.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4000 direct OCURO WP and hold.

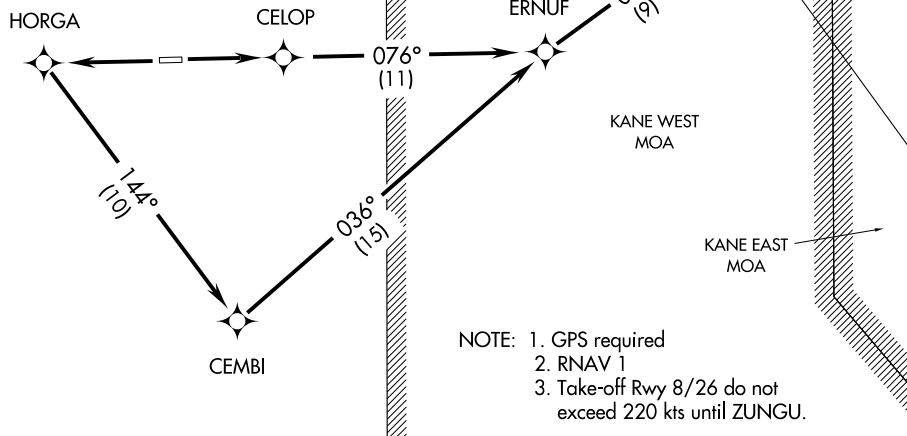
AWOS-1 126.575	LOS ANGELES CENTER 128.6 291.7	UNICOM 122.8 (CTAF) 0
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4000	OCURO	* VDP not authorized with Imperial County altimeter setting. VGSI and descent angles not coincident.			
		* 3.6 NM to RWY26			
		* 3.46° TCH 42			
		* 250°			
		* 2400			
		* 3100			
		* 268°			
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ZUNGU ONE DEPARTURE (RNAV) (OBSTACLE)

LOS ANGELES CENTER
128.6 291.7
CTAF 122.8
AWOS-1 126.575



- NOTE: 1. GPS required
2. RNAV 1
3. Take-off Rwy 8/26 do not exceed 220 kts until ZUNGU.

TAKE-OFF MINIMUMS

Rwy 8: Standard with a minimum climb of 335' per NM to 2000, do not exceed 220 kts until ZUNGU.

Rwy 26: Standard with a minimum climb of 465' per NM to 5000, do not exceed 220 kts until ZUNGU.

TAKE-OFF OBSTACLES

Rwy 8: Numerous trees beginning 2000' from departure end of runway on centerline, up to 75' AGL/875' MSL.

Rwy 26: Numerous trees beginning 1000' from departure end of runway, 400' left of centerline, up to 75' AGL/634' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Climb direct CELOP then via depicted route to ZUNGU.

TAKE-OFF RUNWAY 26: Climb direct HORGA, and left turn 144° track to CEMBI, then via depicted route to ZUNGU.

APP CRS	Rwy Idg	4007
272°	TDZE	-135
	Apt Elev	-129

RNAV (GPS) RWY 26

BRAWLEY MUNI (BWC)

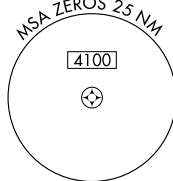
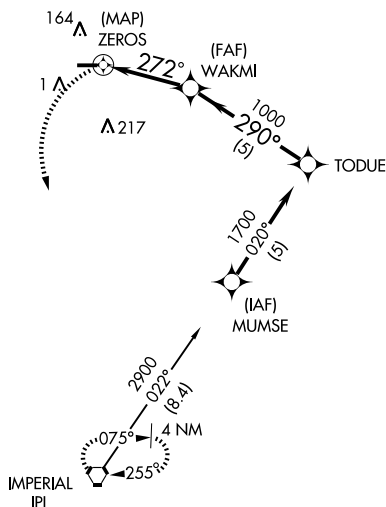


GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
Use Imperial County altimeter setting.

MISSED APPROACH: Climbing left turn to 3600 direct IPL VORTAC and hold.

LOS ANGELES CENTER
128.6 291.7

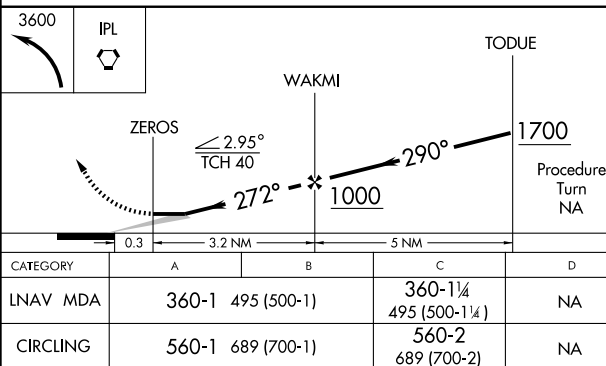
CTAF
122.9



ELEV -129



A571

MIRL Rwy 8-26 **L**

▼

▲ NA

Use Imperial County altimeter setting.

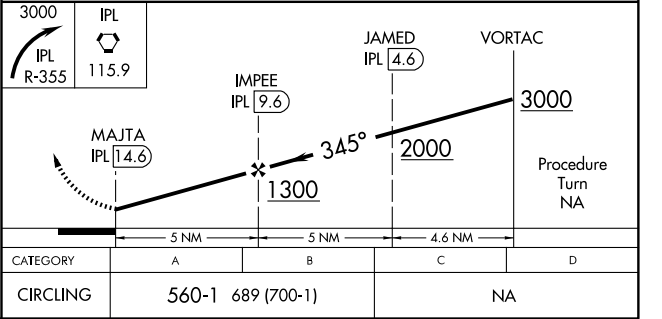
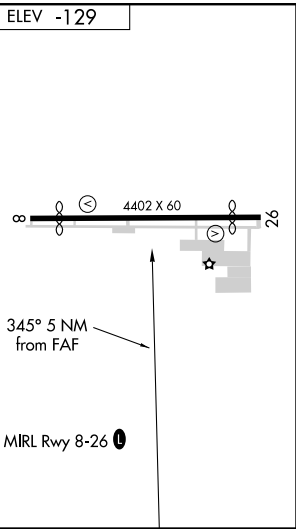
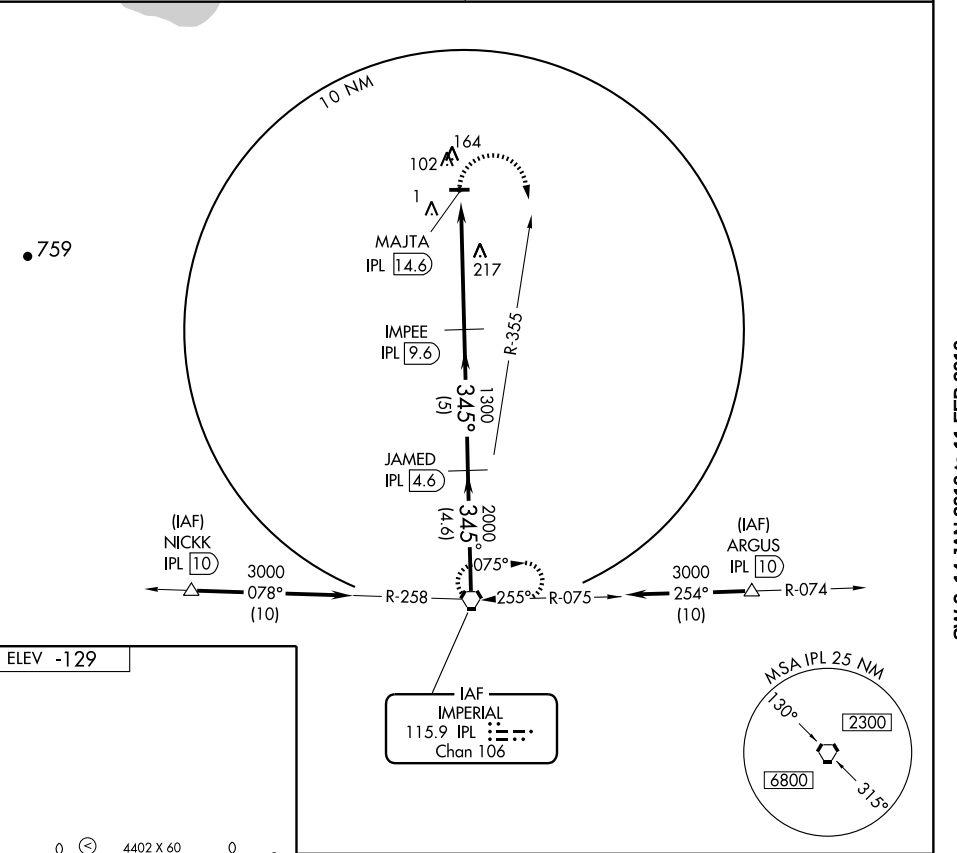
MISSED APPROACH: Climbing right turn to 3000 via IPL R-355 to IPL VORTAC and hold.

LOS ANGELES CENTER

128.6 291.7

CTAF

122.9 0



▼

▲ NA

Use Imperial County altimeter setting.

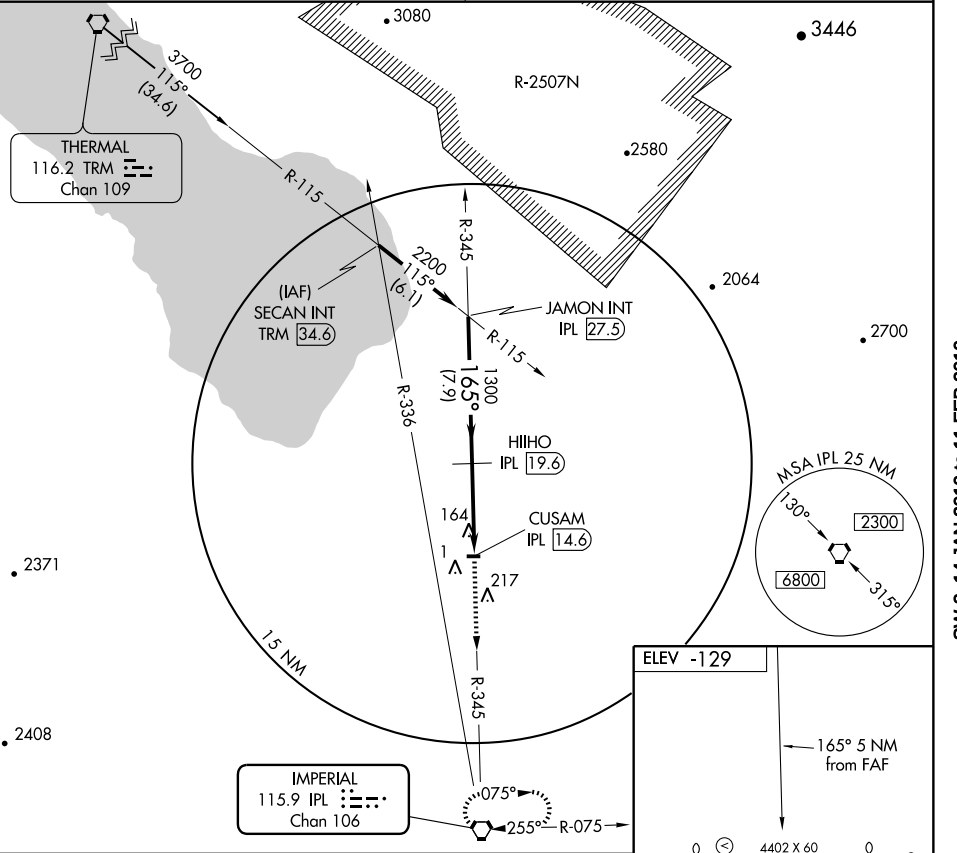
MISSED APPROACH: Climb to 3000 direct IPL VORTAC and hold.

LOS ANGELES CENTER

128.6 291.7

CTAF

122.9



JAMON INT IPL 27.5 HIIHO IPL 19.6 CUSAM IPL 14.6				
2200 165° 1300				
Procedure Turn NA 7.9 NM 5 NM				
CATEGORY	A	B	C	D
CIRCLING	560-1 689 (700-1)		NA	
MRL Rwy 8-26 				

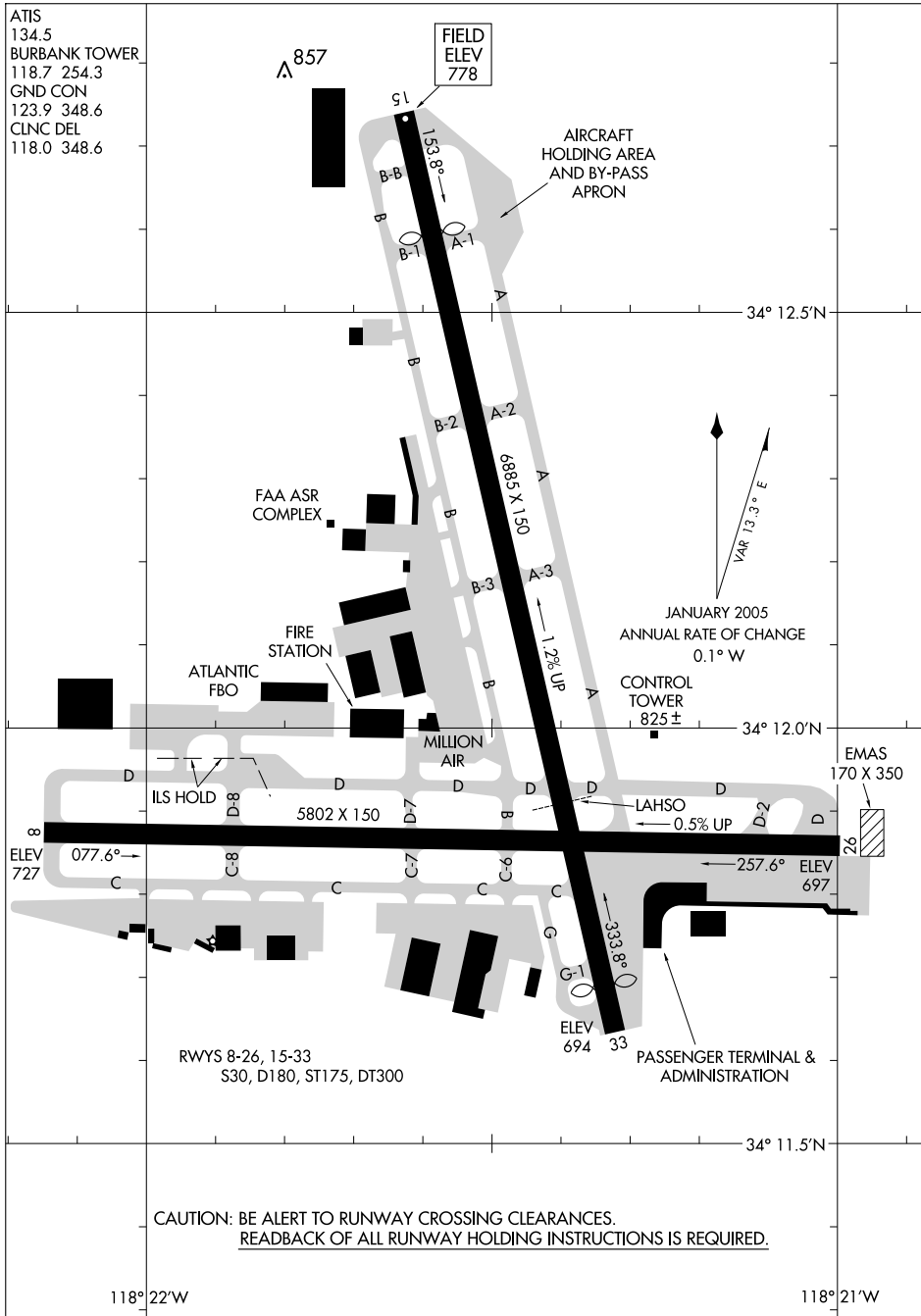
SW-3, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-67 (FAA)

BURBANK/ BOB HOPE (BUR)
BURBANK, CALIFORNIA

ATIS
134.5
BURBANK TOWER
118.7 254.3
GND CON
123.9 348.6
CLNC DEL
118.0 348.6



SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS 134.5
CLNC DEL
118.0 348.6
GND CON
123.9 348.6
SOCAL DEP CON
135.05 317.5

NOTE: This SID requires a minimum climb rate to MEA as follows:

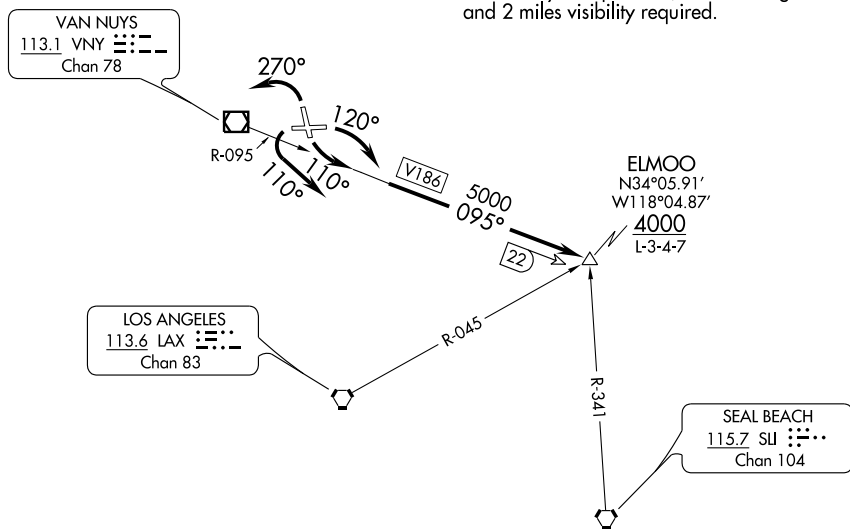
Take-offs Rwy 8, Cats A and B, 480' per NM.
Cats C and D, 650' per NM.

Take-offs Rwy 15, 340' per NM.

Take-offs Rwy 26, 250' per NM.

Take-offs Rwy 33, 390' per NM.

NOTE: For Runway 8 departures, 2100 ceiling and 2 miles visibility required.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Turn right heading 120° as soon as practicable after take-off, intercept and proceed via VNY R-095 to ELMOO INT. Then via (assigned route).

TAKE-OFF RUNWAY 15: Turn left heading 110° as soon as practicable after take-off, intercept and proceed via VNY R-095 to ELMOO INT. Then via (assigned route).

TAKE-OFF RUNWAY 26: Turn left heading 110° as soon as practicable after take-off for vector to VNY R-095. Then via VNY R-095 to ELMOO INT. Then via (assigned route).

TAKE-OFF RUNWAY 33: Turn left heading 270° as soon as practicable after take-off for vector to VNY R-095. Then via VNY R-095 to ELMOO INT. Then via (assigned route).

45 → 319 Chan



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.FERN5): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.FERN5): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

FELLOWS TRANSITION (FLW.FERN5): From over FLW VORTAC via FLW R-116 and FIM R-297 to FIM VORTAC. Thence....

OHIGH TRANSITION (OHIGH.FERN5): From over OHIGH INT via FIM R-267 to FIM VORTAC. Thence....

....From over FIM VORTAC:

LANDING BOB HOPE: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect ILS RWY 8.

LANDING SANTA MONICA MUNI: Via FIM R-097 and VNY R-277 to VNY VOR/DME; then via VNY R-095 to DARTS INT. Expect VOR-A approach.

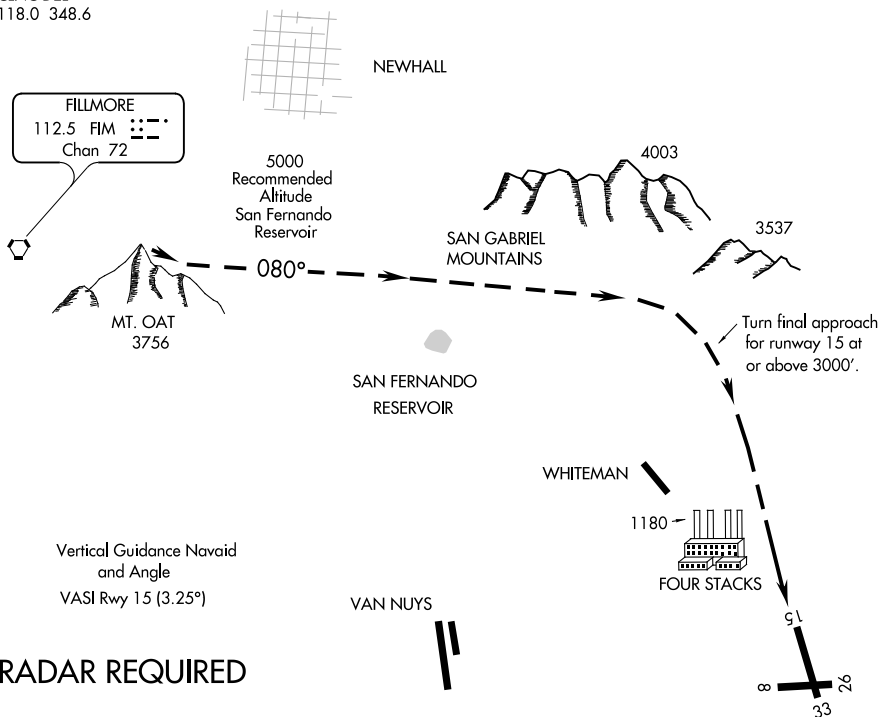
LANDING VAN NUYS RWY 16: Via FIM R-053 to UMBER INT, then via I-VNY localizer. Expect ILS RWY 16R.

LANDING VAN NUYS RWY 34: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect LDA-C; circle to land RWY 34L.

FOUR STACKS VISUAL RWY 15

BURBANK/BOB HOPE (BUR)
BURBANK, CALIFORNIA

ATIS 134.5
SOCAL APP CON
134.2 338.2
BURBANK TOWER
118.7 254.3
GND CON
123.9 348.6
CLNC DEL
118.0 348.6



1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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FOUR STACKS VISUAL APPROACH RWY 15

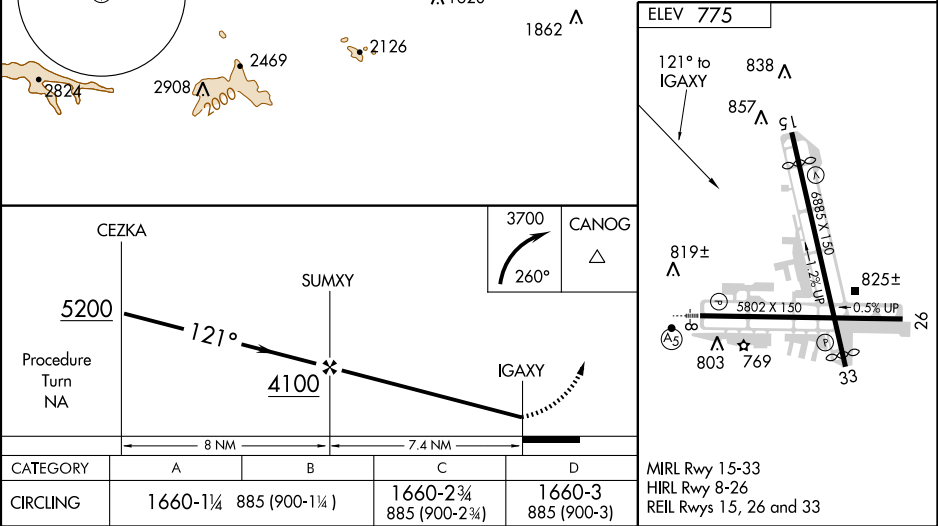
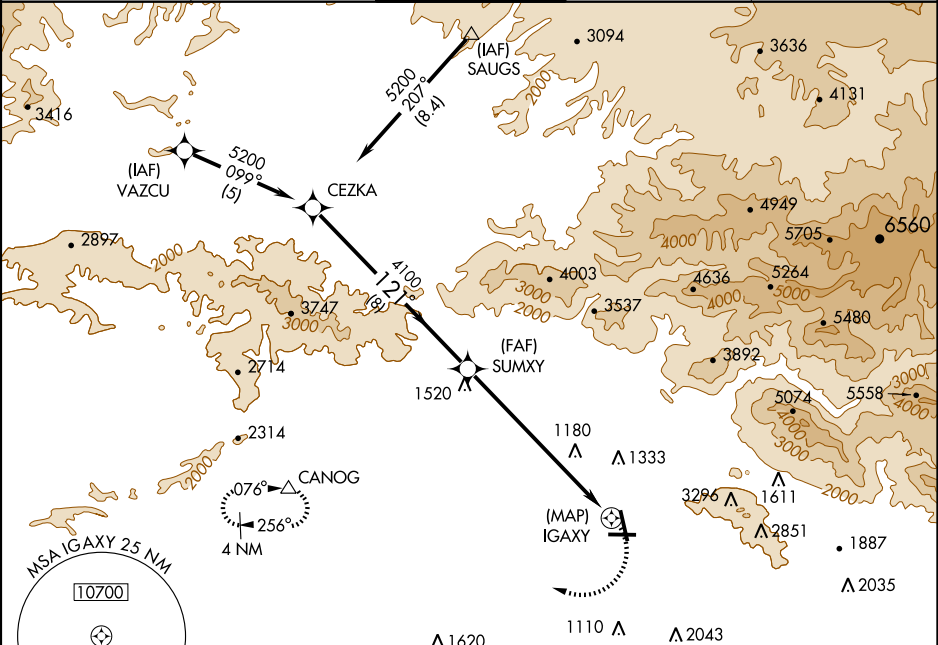
When Visual Approaches to Runway 15 are in progress, clearances will be given to aircraft from the Northwest thru Northeast utilizing the following phraseology:

"(IDENT) CLEARED FOR FOUR STACKS VISUAL
APPROACH TO RUNWAY 15."

APP CRS	Rwy Idg	N/A
121°	TDZE	N/A
	Apt Elev	775

 NA	Circling not authorized NE of Rwys 15 and 26.	MISSED APPROACH: Climbing right turn to 3700 via course 260° to CANOG WP and hold.
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ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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LOC I-BUR <u>109.5</u>	APP CRS 076°	Rwy Idg TDZE Apt Elev	5802 727 778
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ILS or LOC Z RWY 8

BURBANK/BOB HOPE (BUR)

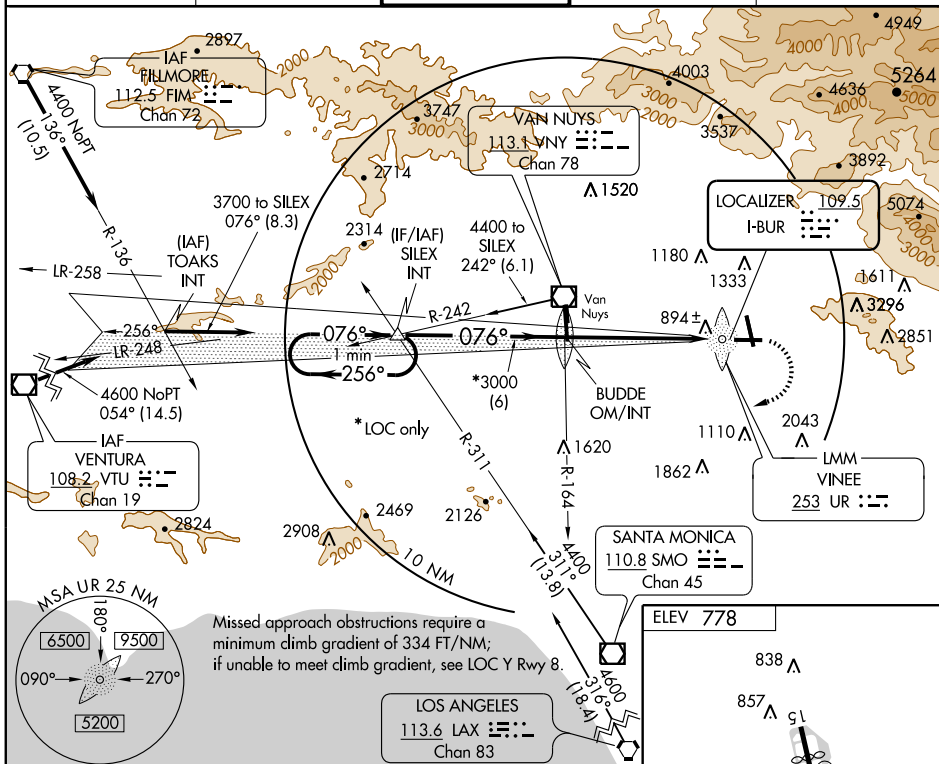
- V** Visibility reduction by helicopters NA. Circling NA northeast Rwy 15 and 26.
A For inoperative MALSR, increase S-LOC 8 Cats C,D visibility to RVR 6000. Inoperative table does not apply to S-ILS 8 all Cats. Inoperative table does not apply to S-LOC 8 Cats A,B. ILS unusable from VINEE LMM inbound. Autopilot coupled approach not authorized below 977 MSL.

MALSR

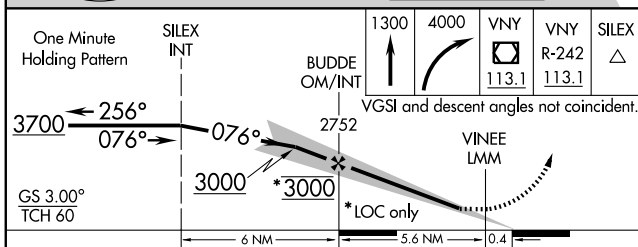


MISSED APPROACH: Climb to 1300 then climbing right turn to 4000 direct VNY VOR/DME then via VNY VOR/DME R-242 to SILEX Int and hold.

ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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SW-3. 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D	HIRL Rwy 8-26							
S-ILS 8	977/50		250 (200-1)		REIL Rwy's 15, 26 and 33							
S-LOC 8	1140/50		413 (400-1)		FAF to MAP 5.4 NM							
CIRCUING	1240-1	462 (500-1)	1280-1½		1440-2		Knots	60	90	120	150	180
			502 (600-1½)		662 (700-2)		Min:Sec	5:24	3:36	2:42	2:10	1:48

LOC Y RWY 8

BURBANK/BOB HOPE (BUR)

LOC I-BUR 109.5	APP CRS 076°	Rwy Idg TDZE Apt Elev	5802 727 778
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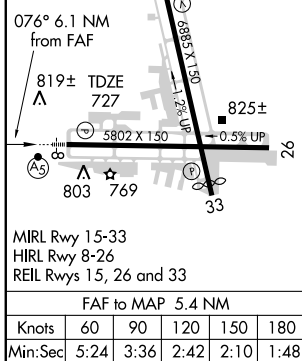
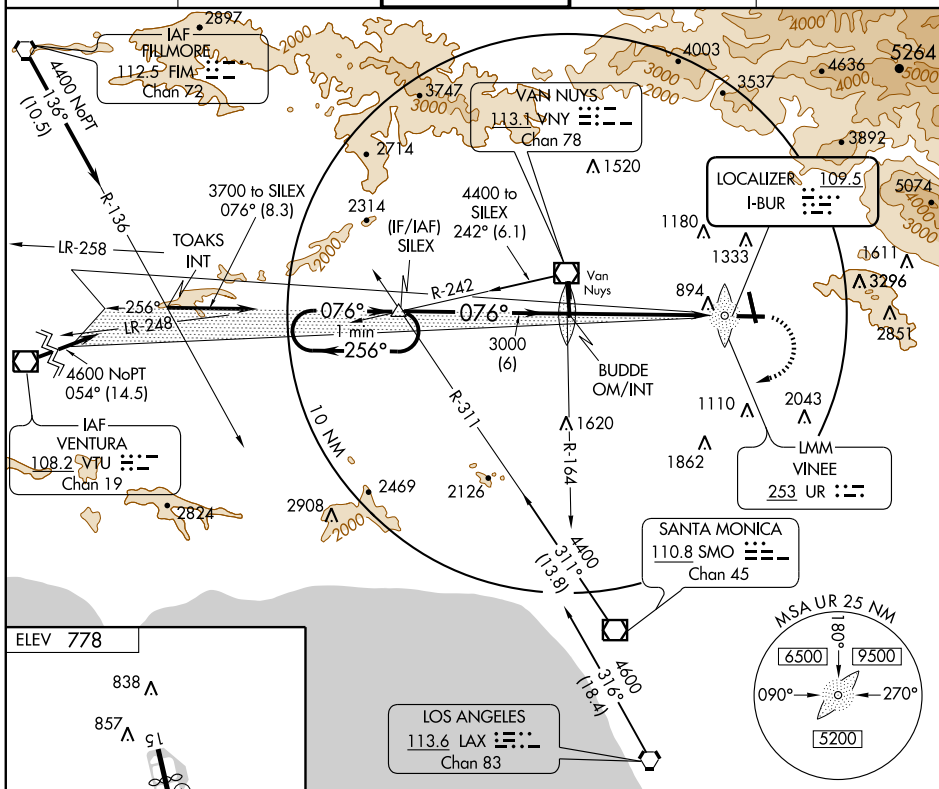
Visibility reduction by helicopters not authorized.
 Circling not authorized northeast of Rwy 15 and 26.
 Inoperative table does not apply to S-8 Cat A.
 For inoperative MALS, increase S-8 Cat B visibility to
 RVR 6000. LOC unusable from VINEE LMM inbound.

MALS



MISSED APPROACH: Climb to 2000 then climbing
 right turn to 4000 direct VNY VOR/DME, then via
 VNY VOR/DME R-242 to SILEX Int and hold.

ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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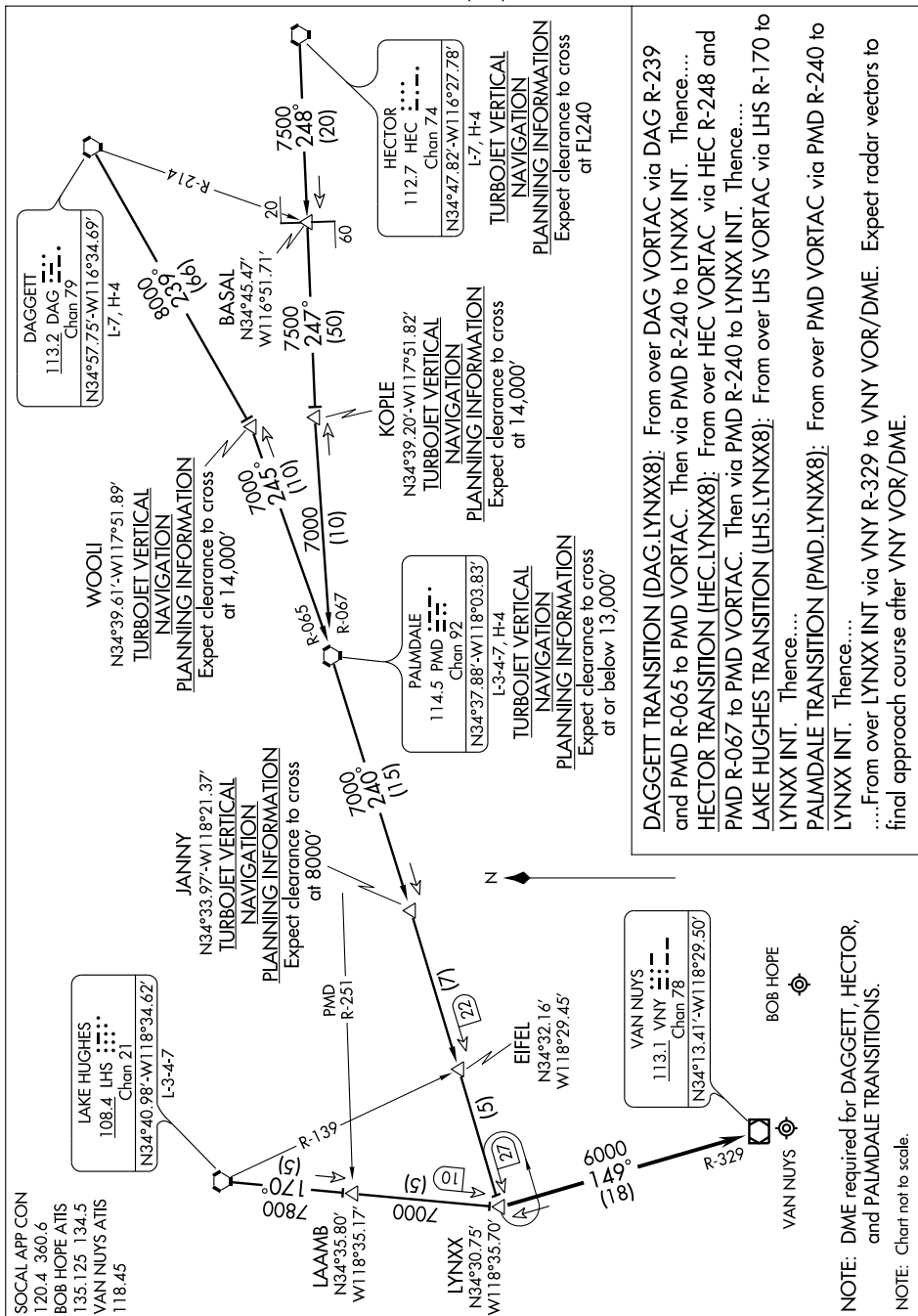


One Minute Holding Pattern	SILEX INT	BUDDE OM/INT	2000	4000	VNY 113.1	VNY 113.1	SILEX △
3700	256°	076°	076°	3000	3.45°	TCH 50	VINEE LMM
VGSI and descent angles not coincident.	6 NM	5.6 NM	0.4				
CATEGORY	A	B	C	D			
S-8	1600/50	873 (900-1)	1600-2 873 (900-2)	1600-2¼ 873 (900-2¼)			
CIRCLING	1600-1 822 (900-1)	1600-1¼ 822 (900-1¼)	1600-2½ 822 (900-2½)	1600-2¾ 822 (900-2¾)			

LYNXE EIGHT ARRIVAL

ST-67 (FAA)

BURBANK, CALIFORNIA

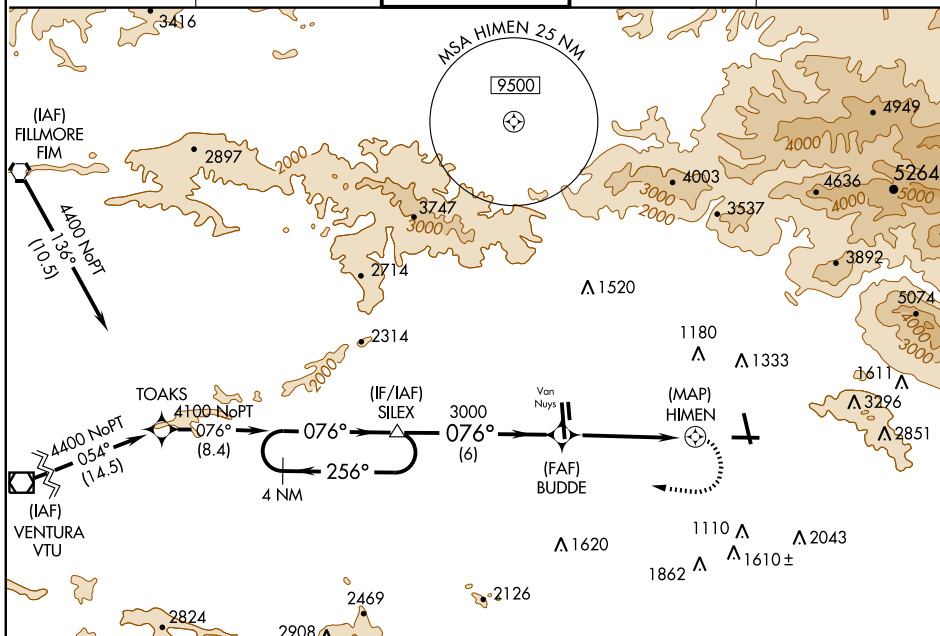


Rwy Idg	5802
TDZE	727
Apt Elev	778

MALSR

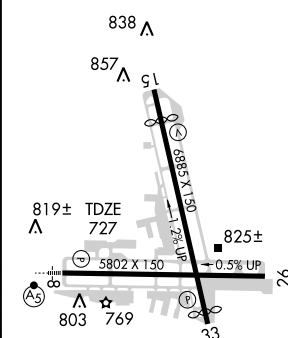
MISSED APPROACH: Climbing right turn to 4100 direct SILEX WP and hold.

CLNC DEL
118.0 348.6



SW-3, 14 JAN 2010 to 11 FEB 2010

ELEV 778



26

MIRL Rwy 15-33
HIRL Rwy 8-26
REIL Rwy 15, 26 and 33

Maneuver	Altitude (ft)	Heading (°)	Distance (NM)
4 NM Holding Pattern	4100	256°	4
VGS1	4100	076°	6
VGS2	3000	076°	4.8
BUDE	4100	3.45°	1.3
TCH 50	3000	076°	1.3
HIMEN	3000	076°	1.3

CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/ VNAV DA	NA			
LNAV MDA	1600/50	873 (900-1)	1600-2 873 (900-2)	1600-2¼ 873 (900-2¼)
CIRCLING	1600-1½	822 (900-1½)	1600-2½ 822 (900-2½)	1600-2¾ 822 (900-2¾)

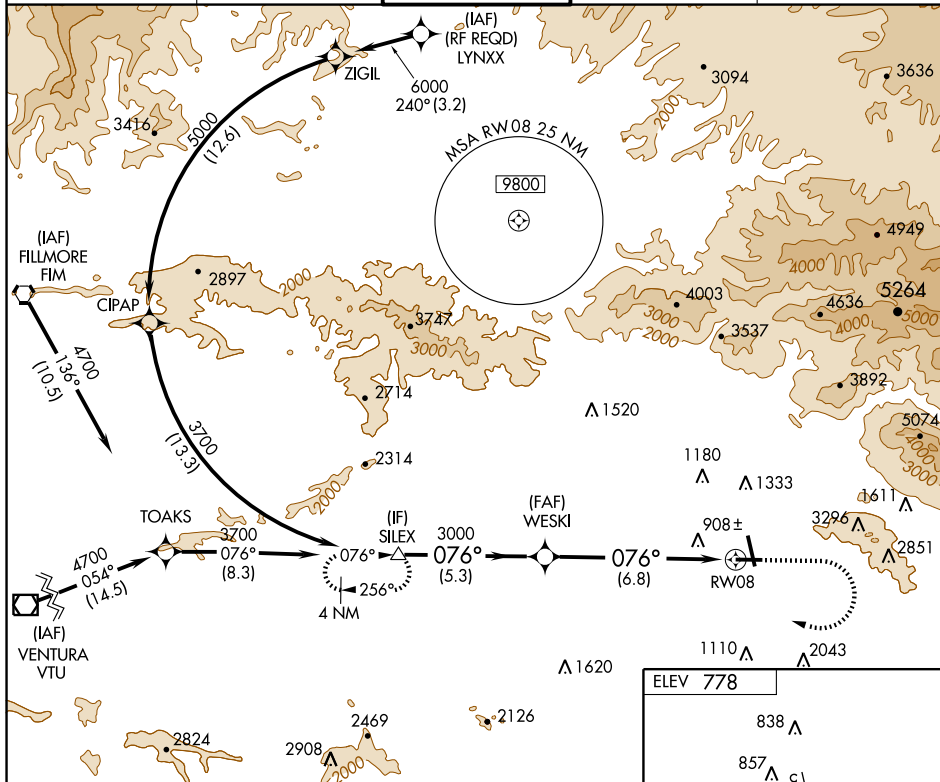
APP CRS	Rwy Idg	5802
076°	TDZE	727
	Apt Elev	778

RNAV (RNP) Z RWY 8

BURBANK/BOB HOPE (BUR)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (33°F) or above 47°C (117°F). Visibility reduction by helicopters NA. For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1¾ mile. *Missed approach requires minimum climb of 391 feet per NM to 2700 if unable see RNAV (GPS) Y Rwy 8.	MALSR	MISSED APPROACH: Climb to 1700 then climbing right turn to 4000 direct SILEX and hold.
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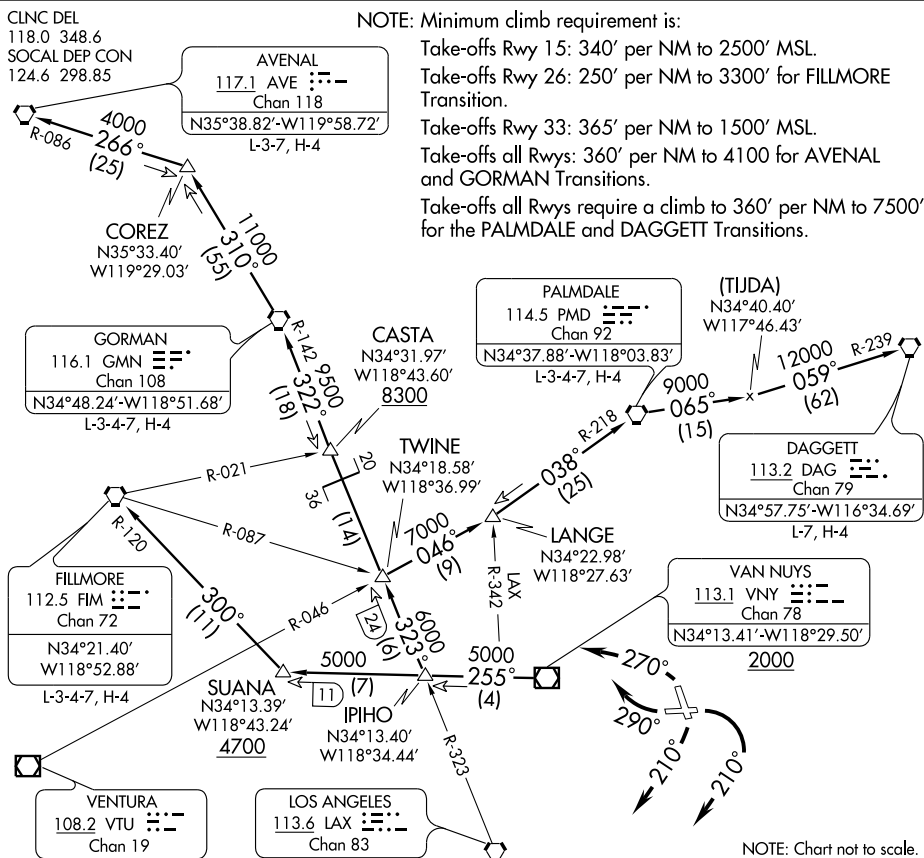
ATIS 134.5	SOCAL APP CON 134.2 338.2	BURBANK TOWER 118.7 254.3	GND CON 123.9 348.6	CLNC DEL 118.0 348.6
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SILEX					VGSI and RNAV glidepath not coincident.					1700 ↑ 4000 ↷ SILEX △		
3700		076°			3000		WESKI		RW08			
Procedure Turn NA												
GP 3.00°												
TCH 60												
					5.3 NM		6.8 NM					
CATEGORY		A		B		C		D				
RNP 0.30 DA*		1260/60 533 (500-1¼)										
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED												
MIRL Rwy 15-33 HIRL Rwy 8-26 REIL Rws 15, 26 and 33												

VAN NUYS SEVEN DEPARTURE

SL-67 (FAA)

BURBANK/BOB HOPE (BUR)
BURBANK, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 8: Turn right heading 210° as soon as practicable after take-off. Expect vector to VNY VOR/DME. Thence via (transition) or (assigned route).

NOTE: Runway 8 departures not authorized when weather conditions are less than 2100' ceiling and 3 miles prevailing visibility.

TAKE-OFF RUNWAY 15: Turn right heading 210° as soon as practicable after take-off. Expect vector to VNY VOR/DME, then via (transition) or (assigned route).

TAKE-OFF RUNWAY 26: Turn right heading 290° as soon as practicable after take-off for vector to VNY VOR/DME, then via (transition) or (assigned route).

TAKE-OFF RUNWAY 33: Turn left heading 270° as soon as practicable after take-off for vector to VNY VOR/DME, then via (transition) or (assigned route).

AVENAL TRANSITION (VNY7.AVE)

DAGGETT TRANSITION (VNY7.DAG)

FILLMORE TRANSITION (VNY7.FIM)

GORMAN TRANSITION (VNY7.GMN)

PALMDALE TRANSITION (VNY7.PMD)

VOR/DME VNY	APP CRS	Rwy Idg	5802
113.1	089°	TDZE	727
Chan 78		Apt Elev	778

⚠ Circling not authorized northeast of Rwy 15 and 26.

⚠ Inoperative table does not apply.

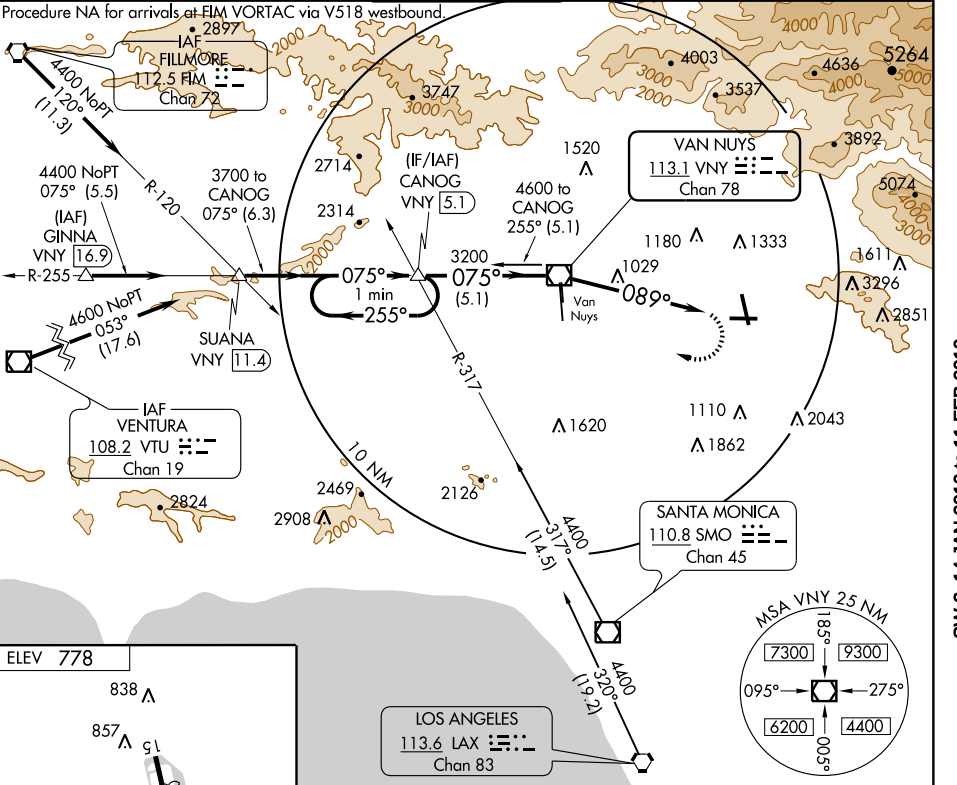
Visibility reduction by helicopters not authorized.

MALSR

AS

MISSED APPROACH: Climbing right turn to 3700 direct VNY VOR/DME, then via VNY VOR/DME R-255 to CANOG INT/VNY 5.1 DME and hold.

ATIS	SOCAL APP CON	BURBANK TOWER	GND CON	CLNC DEL
134.5	134.2 338.2	118.7 254.3	123.9 348.6	118.0 348.6



ELEV 778

838 A

857 A

089° 6.3 NM from FAF

819± A

TDZE 727

5802 X 150

803 769

825±

0.5% UP

33

MIRL Rwy 15-33

HIRL Rwy 8-26

REIL Rwys 15, 26 and 33

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

One Minute Holding Pattern

CANOG INT VNY 5.1

3700 VNY 113.1

VNY R-255 113.1

CANOG

VOR/DME

3700

255°

075°

075°

3200

3.59° TCH 75

VNY 5.5

089°

5.1 NM

5.5 NM

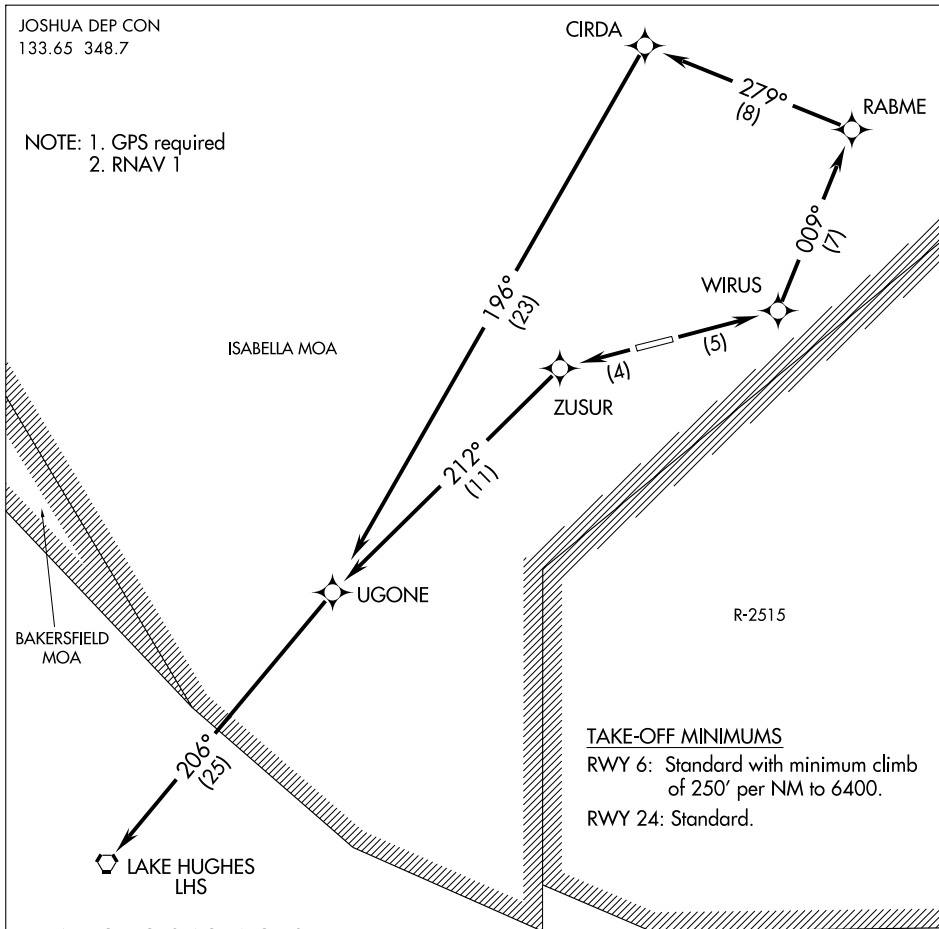
0.8

CATEGORY	A	B	C	D
S-8	1340/50	613 (600-1)	1340-1 3/4 613 (600-1 3/4)	1660-3 933 (900-3)
CIRCLING	1340-1	562 (600-1)	1340-1 3/4 562 (600-1 3/4)	1660-3 882 (900-3)

SW-3: 14 JAN 2010 to 11 FEB 2010

JOSHUA DEP CON
133.65 348.7

NOTE: 1. GPS required
2. RNAV 1



TAKE-OFF OBSTACLE NOTES

- Rwy 6: Ground 37' from departure end of runway, 408' right of centerline, 0' AGL/2406' MSL.
Rwy 24: Windsock 8' from departure end of runway, 159' right of centerline, 25' AGL/2476' MSL.
Bush 220' from departure end of runway 456' left of centerline, 9' AGL/2467' MSL.
Bush 550' from departure end of runway, 447' left of centerline, 16' AGL/2474' MSL.
Bush 365' from departure end of runway, 299' left of centerline, 8' AGL/2469' MSL.
Bush 245' from departure end of runway, 449' left of centerline, 8' AGL/2466' MSL.
Bush 422' from departure end of runway, 454' left of centerline, 12' AGL/2470' MSL.
Bush 355' from departure end of runway, 106' left of centerline, 6' AGL/2467' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct WIRUS, then via depicted route to LHS VORTAC.
Maintain 9000.

TAKE-OFF RUNWAY 24: Climb direct ZUSUR, then via depicted route to LHS VORTAC.
Maintain 9000.

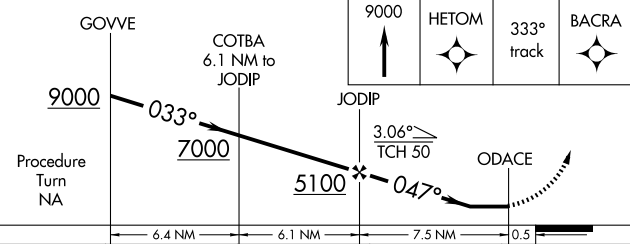
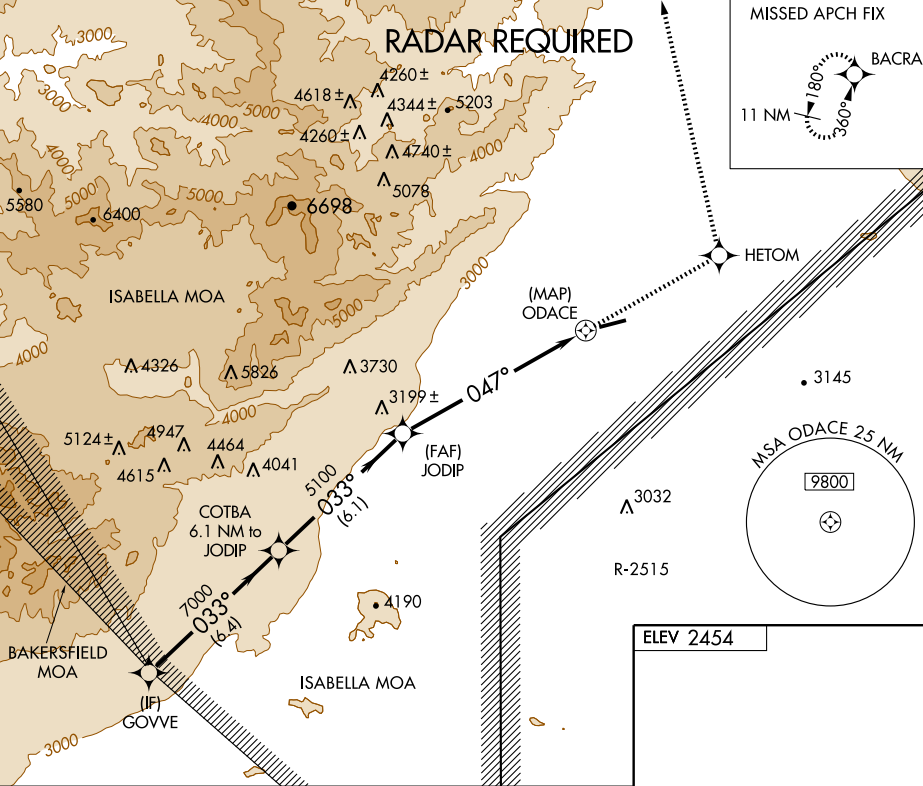
RNAV (GPS) RWY 6
CALIFORNIA CITY MUNI (L71)

APP CRS	Rwy Idg	6027
047°	TDZE	2454
	Apt Elev	2454

NA DME/DME RNP -0.3 NA.
If local altimeter setting not received, use Edwards AFB altimeter setting and increase all MDAs 60 feet; if neither received, procedure not authorized. Procedure not authorized at night.

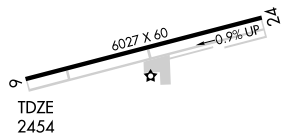
MISSED APPROACH: Climb to 9000 direct HETOM and via 333° track to BACRA and hold, continue climb-in-hold to 9000.

AWOS-1 120.875	JOSHUA APP CON 133.65 348.7	UNICOM 122.7 (CTAF) 1
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CATEGORY	A	B	C	D
LNNAV MDA	3660-1¼ 1206 (1300-1¼)	3660-1½ 1206 (1300-1½)	3660-3 1206 (1300-3)	NA
CIRCLING	3660-1¼ 1206 (1300-1¼)	3660-1½ 1206 (1300-1½)	3660-3 1206 (1300-3)	NA

ELEV 2454



MIRL Rwy 6-24 1

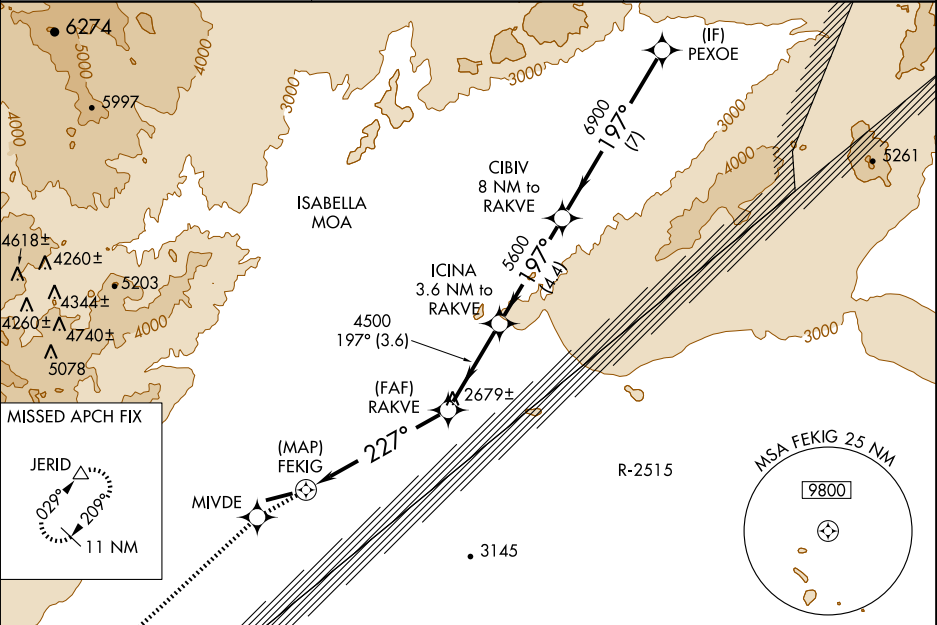
APP CRS	Rwy Idg	6027
227°	TDZE	2429
	Apt Elev	2454

RNAV (GPS) RWY 24

CALIFORNIA CITY MUNI (L71)

▼ DME/DME RNP -0.3 NA. ▲ NA If local altimeter setting not received, use Edwards AFB altimeter setting and increase all MDAs 60 feet; if neither received, procedure not authorized. Procedure not authorized at night.	MISSED APPROACH: Climb to 9000 direct MIVDE and via 213° track to JERID and hold, continue climb-in-hold to 9000.
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AWOS-1 120.875	JOSHUA APP CON 133.65 348.7	UNICOM 122.7 (CTAF) 0
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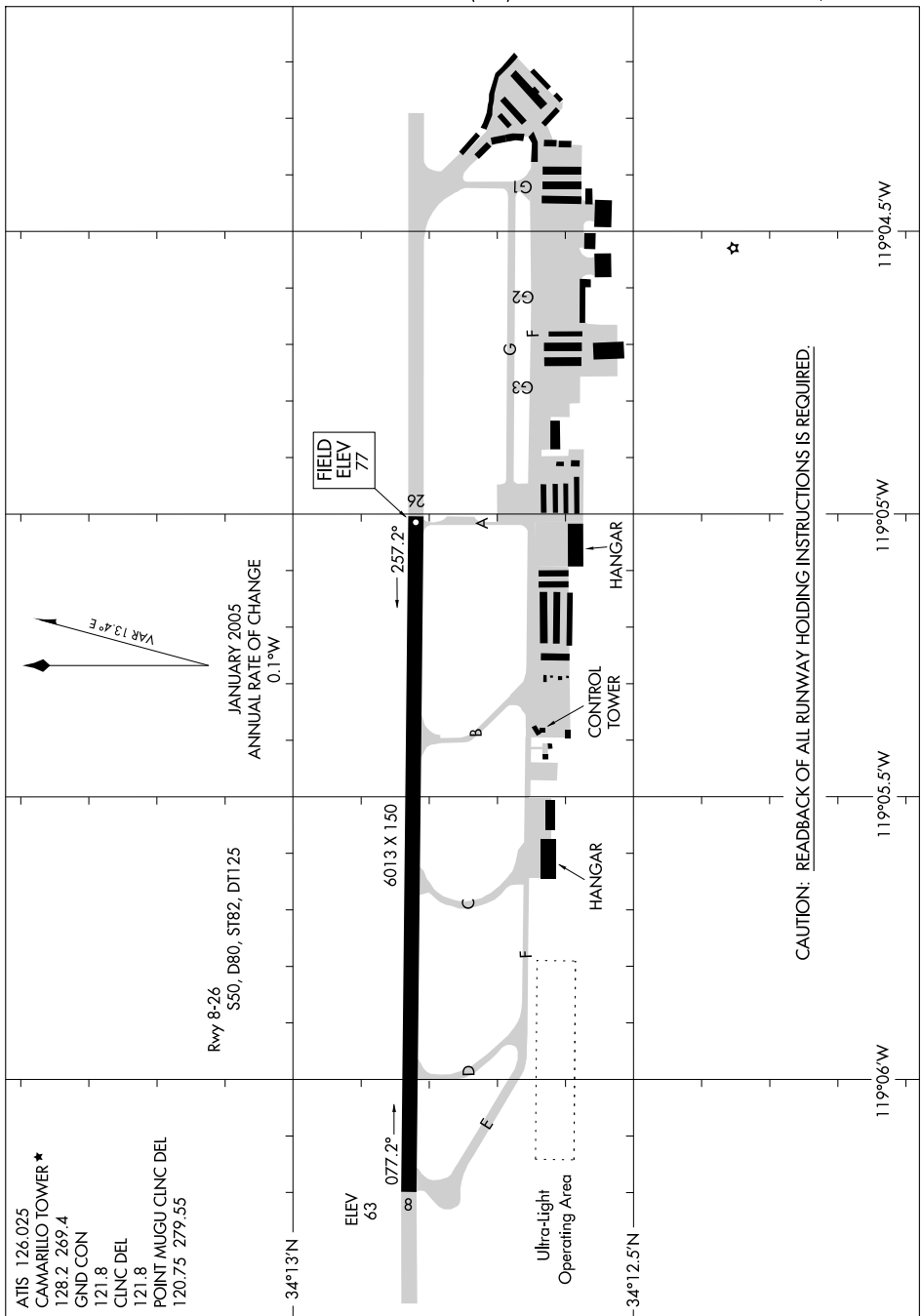


ELEV 2454				
RADAR REQUIRED				
9000 MIVDE 213° track JERID △ CIBIV 8 NM to RAKVE PEXOE ICINA 3.6 NM to RAKVE RAKVE 4500 5600 6900 9000 FEKIG 227° 197° 3.05° TCH 50 0.5 5.8 NM 3.6 NM 4.4 NM 7 NM				
CATEGORY	A	B	C	D
RNAV MDA	2820-1 391 (400-1)			NA
CIRCLING	2940-1 486 (500-1)	2960-1 506 (600-1)	3080-1 626 (700-1 3/4)	NA
MIRL Rwy 6-24 0				

AIRPORT DIAGRAM

AL-680 (FAA)

CAMARILLO (CMA)
CAMARILLO, CALIFORNIA



CAUTION: READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-3, 14 JAN 2010 to 11 FEB 2010

▼

▲

Circling NA north of Rwy 8-26. DME/DME RNP-0.3 NA.
 If local altimeter setting not received, use Oxnard altimeter setting and increase all MDAs 20 feet.
 VDP NA when using Oxnard altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 direct HATLI and hold.

ATIS 126.025	POINT MUGU APP CON ★ 124.7 335.5	CAMARILLO TOWER ★ 128.2(CTAF) 0 269.4	GND CON 121.8	CLNC DEL 121.8	POINT MUGU CLNC DEL 120.75 279.55
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ELEV 77

TDZE

68

6013 X 150

26

Ultralight

Operating Area

★

REIL Rws 8 and 26 0

MIRL Rwy 8-26 0

5 NM Holding Pattern

HATLI

DYLAN

NEVCI 2.5 NM to VAANG

1 NM to VAANG

VAANG

3000

253°

073°

073°

2000

3.17°

TCH 48

1100

3000

HATLI

CATEGORY	A	B	C	D
LNAV MDA	600-1 532 (600-1)		600-1½ 532 (600-1½)	600-1¾ 532 (600-1¾)
CIRCLING	600-1 523 (600-1)		600-1½ 523 (600-1½)	640-2 563 (600-2)

SW-3. 14 JAN 2010 to 11 FEB 2010

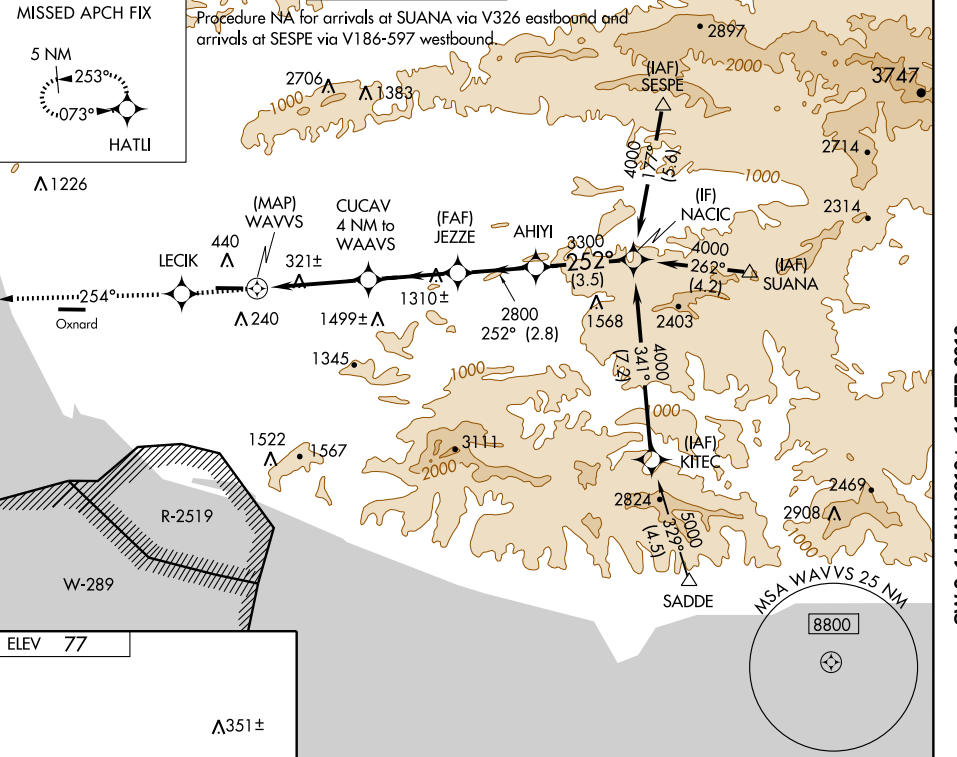
⚠

⚠

Circling NA north of Rwy 8-26. DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Oxnard altimeter setting and increase all MDAs 20 feet.
VDP NA when using Oxnard altimeter setting.

MISSED APPROACH: Climb to 3000 direct LECIK and via 254° track to HATLI and hold.

ATIS	POINT MUGU APP CON	CAMARILLO TOWER	GND CON	CLNC DEL	POINT MUGU CLNC DEL
126.025	124.7 335.5	128.2 (CTAF) 0 269.4	121.8	121.8	120.75 279.55



3000	LECIK	254° track	HATLI	VGSI and descent angles not coincident.
*1720 when using Oxnard altimeter setting				
1.1 NM to WAVVS		CUCAV 4 NM to WAVVS		
WAVVS		$\leq 3.30^\circ$ TCH 48		
0.5		1.1	2.9 NM	3.2 NM
CATEGORY		A		B
LNAV MDA		620-1		543 (600-1)
CIRCLING		620-1		543 (600-1)

REIL Rwy 8 and 26

MIRL Rwy 8-26

T

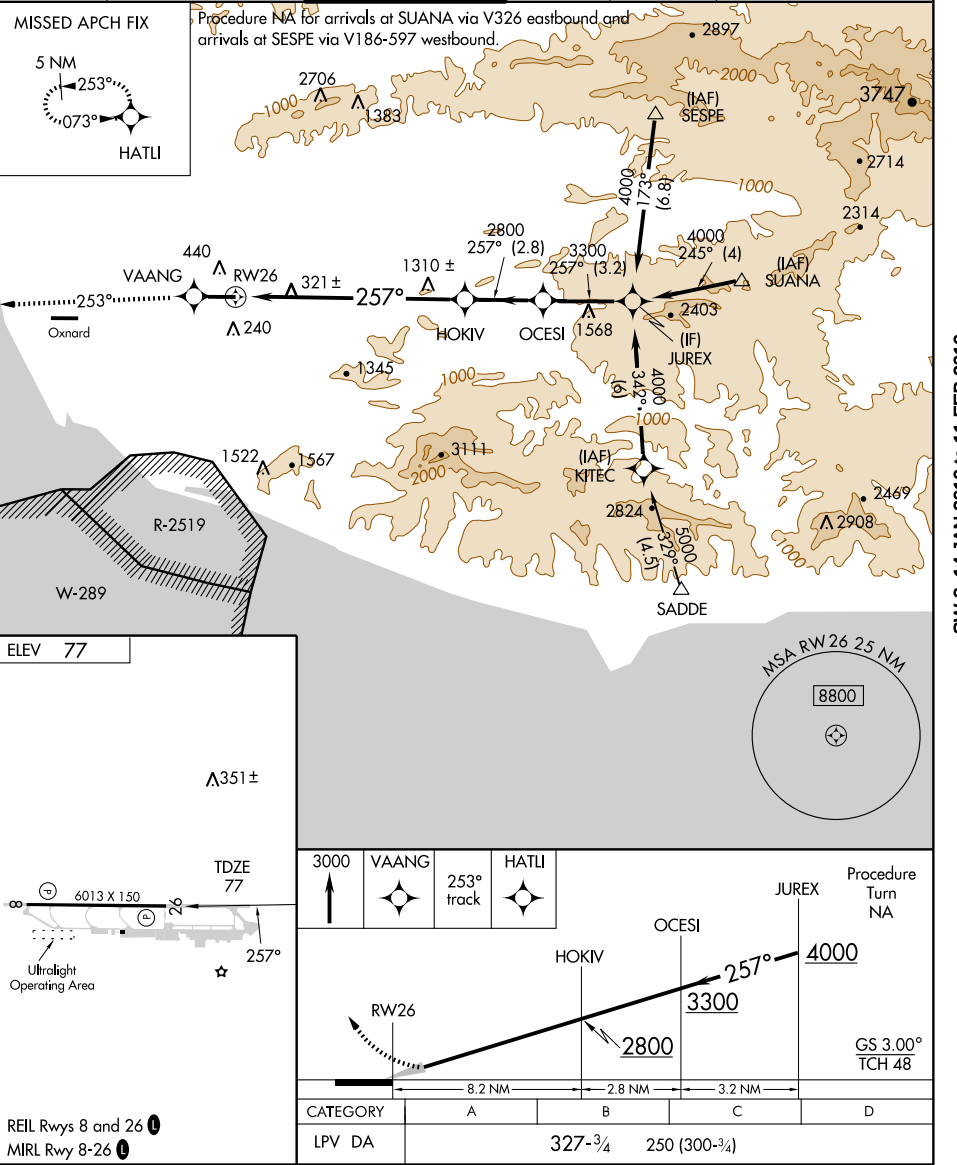
A

W

DME/DME RNP -0.3 NA.
If local altimeter setting not received, use Oxnard altimeter setting and increase DA 18 feet.

MISSED APPROACH: Climb to 3000 direct VAANG and via 253° track to HATLI and hold.

ATIS 126.025	POINT MUGU APP CON ★ 124.7 335.5	CAMARILLO TOWER ★ 128.2(CTAF) 0 269.4	GND CON 121.8	CLNC DEL 121.8	POINT MUGU CLNC DEL 120.75 279.55
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VOR RWY 26

CAMARILLO (CMA)

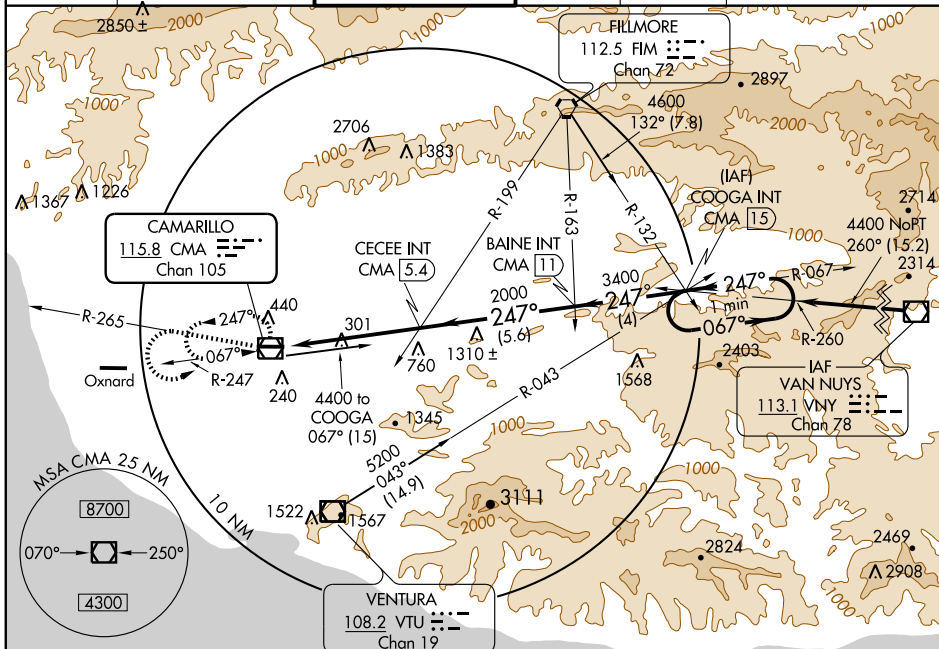
VOR/DME CMA	APP CRS	Rwy Idg	6013
115.8	247°	TDZE	77
Chan 105		Apt Elev	77

▼ Circling not authorized north of Rwy 8/26.

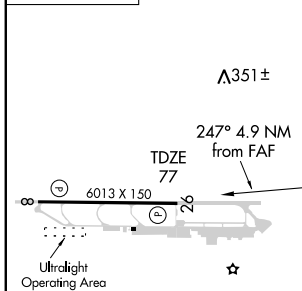


MISSED APPROACH: Climb to 2000 via CMA R-265 then climbing left turn to 4400 direct CMA VOR/DME and hold.

ATIS	POINT MUGU APP CON*	CAMARILLO TOWER *	GND CON	CLNC DEL	POINT MUGU CLNC DEL
126.025	124.7 335.5	128.2 (CTAF) 0 269.4	121.8	121.8	120.75 279.55

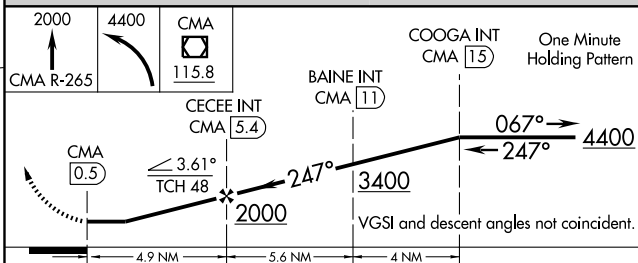


ELEV 77



MIRL Rwy 8-26
REIL Rws 8 and 26

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

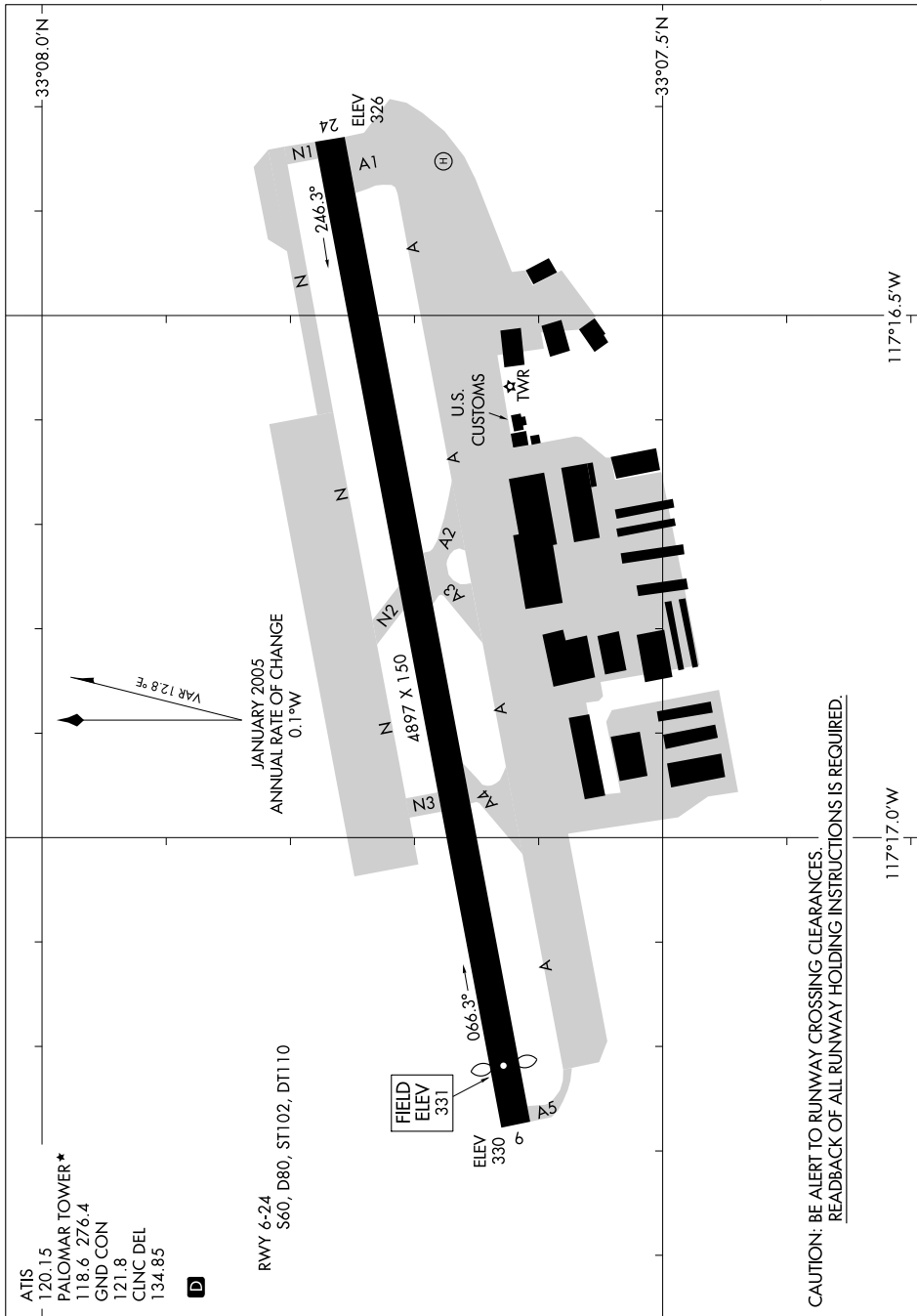


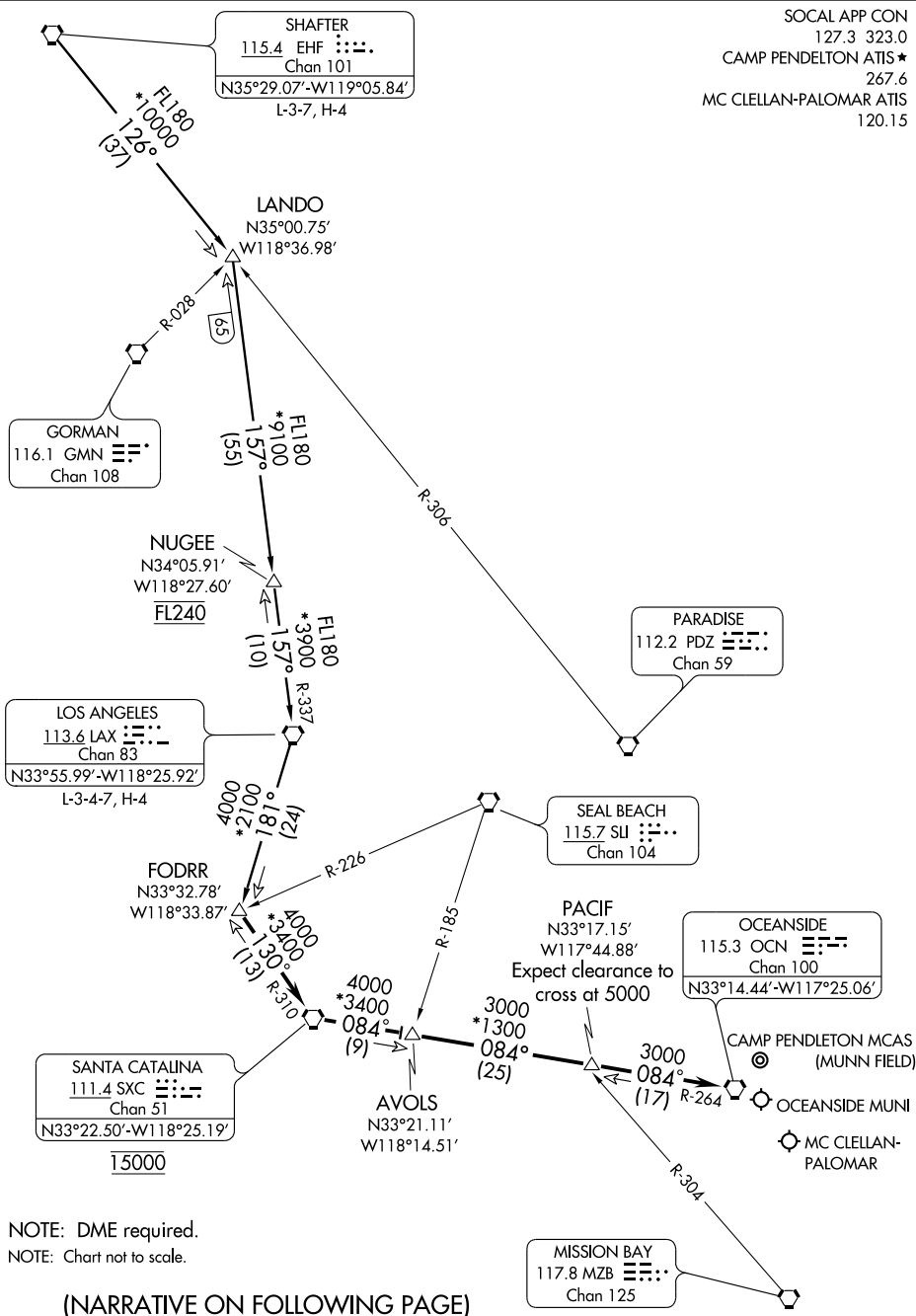
CATEGORY	A	B	C	D
S-26	1100-1 1/4 1023 (1100-1 1/4)	1100-1 1/2 1023 (1100-1 1/2)	1100-3 1023 (1100-3)	NA
CIRCLING	1100-1 1/4 1023 (1100-1 1/4)	1100-1 1/2 1023 (1100-1 1/2)	1100-3 1023 (1100-3)	NA

AIRPORT DIAGRAM

AL-5310 (FAA)

CARLSBAD/MC CLELLAN-PALOMAR (CRQ)
CARLSBAD, CALIFORNIA





ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.FODRR1): From over LAX VORTAC via LAX R-181 to FODRR INT/DME FIX. Thence....

SHAFTER TRANSITION (EHF.FODRR1): From over EHF VORTAC via EHF R-126 and LAX R-337 to LAX VORTAC, then via LAX R-181 to FODRR INT/DME FIX. Thence....

....From over FODRR INT/DME FIX via SXC R-310 to SXC VORTAC, cross SXC VORTAC at 15000, then via SXC R-084 to AVOLS INT/DME FIX, then via SXC R-084 and OCN R-264 to PACIF INT/DME FIX, then via OCN R-264 to OCN VORTAC. Thence....

....LANDING CARLSBAD/MC CLELLAN-PALOMAR: From over OCN VORTAC expect the ILS or LOC RWY 24 approach.

....LANDING CAMP PENDLETON MCAS (MUNN FIELD): From over OCN VORTAC expect the VOR/DME or TACAN RWY 21 approach.

....LANDING OCEANSIDE MUNI: From over OCN VORTAC expect the VOR-A approach.

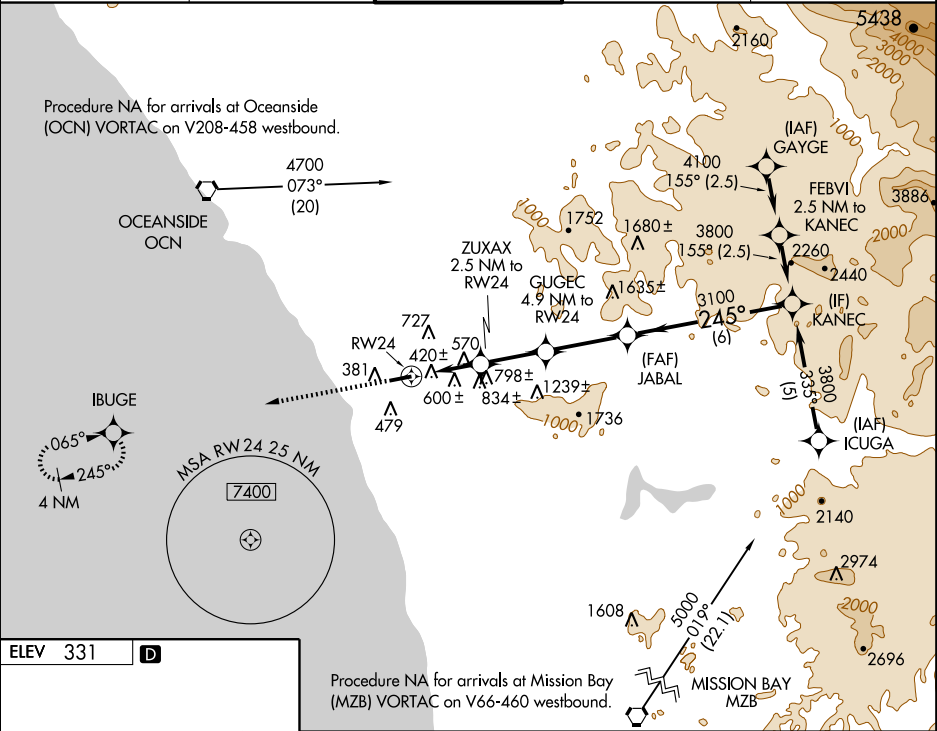
WAAS CH 65603 W24A	APP CRS 245°	Rwy Idg TDZE Apt Elev 4897 326 331
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RNAV (GPS) RWY 24

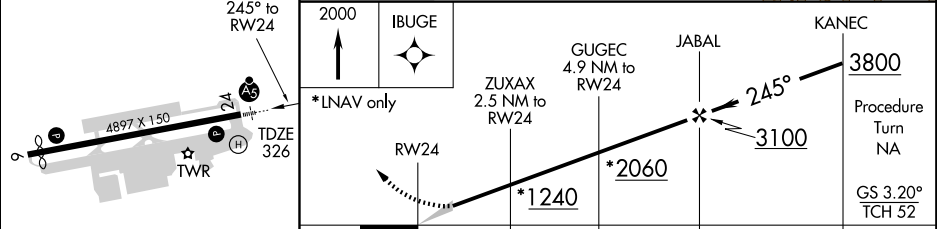
CARLSBAD/MC CLELLAN-PALOMAR (CRQ)

⚠ DME/DME RNP-0.3 NA. ⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).	MALSRL 	MISSED APPROACH: Climb to 2000 direct IBUGE WP and hold.
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ATIS 120.15	SOCAL APP CON 127.3 323.0	PALOMAR TOWER★ 118.6 (CTAF) 0 276.4	GND CON 121.8	CLNC DEL 134.85
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ELEV 331	D
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CATEGORY	A	B	C	D
LPV DA	737/40 411 (500-¾)			NA
LNAV/VNAV DA	1387-2	1061 (1100-2)	1387-3 1061 (1100-3)	NA
LNAV MDA	1100/40	774 (800-¾)	1100-1¾ 774 (800-1¾)	NA
CIRCLING	1100-1 769 (800-1)	1100-1¼ 769 (800-1¼)	1100-2¼ 769 (800-2¼)	NA

REIL Rwy 24 **1**
HIRL Rwy 6-24 **1**

VORTAC OCN 115.3 Chan 100	APP CRS 120°	Rwy Idg TDZE Apt Elev	N/A N/A 331
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VOR-A
CARLSBAD/MC CLELLAN-PALOMAR (CRQ)



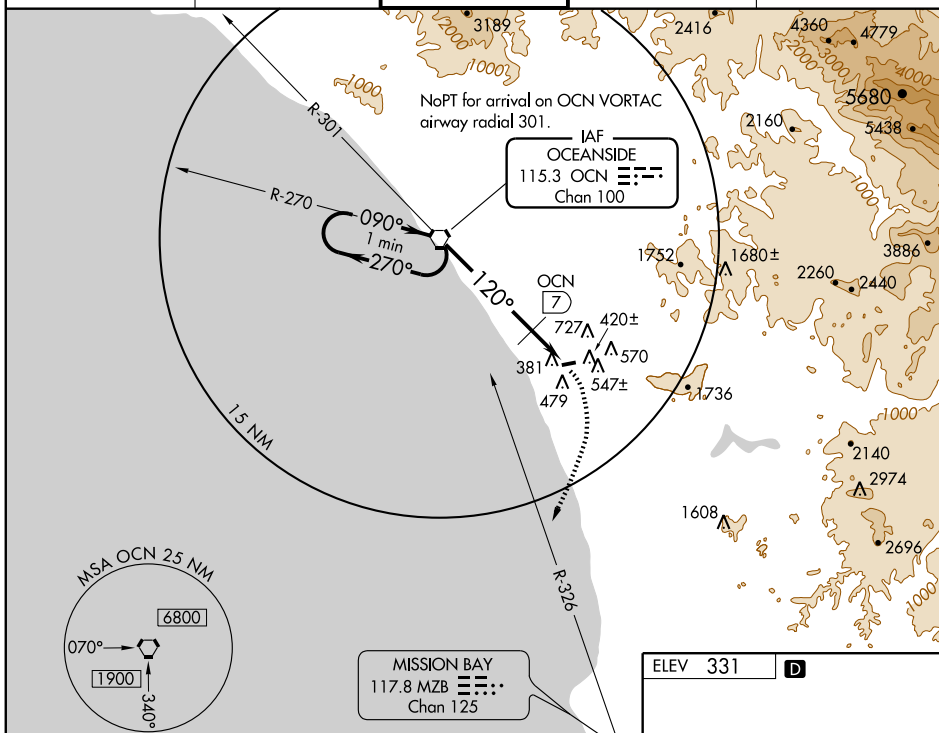
MISSED APPROACH: Climbing right turn to 3000 via heading 180° and MZB R-326 to MZB VORTAC.

ATIS
120.15

SOCAL APP CON
127.3 323.0

PALOMAR TOWER★
118.6 (CTAF) **L** 276.4

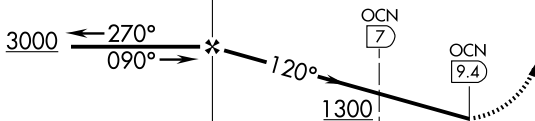
GND CON
121.8

CLNC DEL
134.85

SW-3. 14 JAN 2010 to 11 FEB 2010

One Minute Holding Pattern

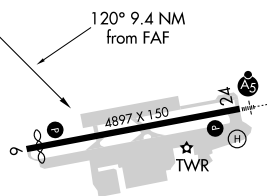
VORTAC



		7 NM		2.4 NM		
CATEGORY	A	B	C	D		
CIRCLING	1300-1¼ 969 (1000-1¼)	1300-1½ 969 (1000-1½)	1300-3 969 (1000-3)	NA		
DME MINIMUMS						
CIRCLING	860-1 529 (600-1)	1000-1 669 (700-1)	1080-2¼ 749 (800-2¼)	NA		

ELEV 331	D
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D

REIL Rwy 24 **L**
HIRL Rwy 6-24

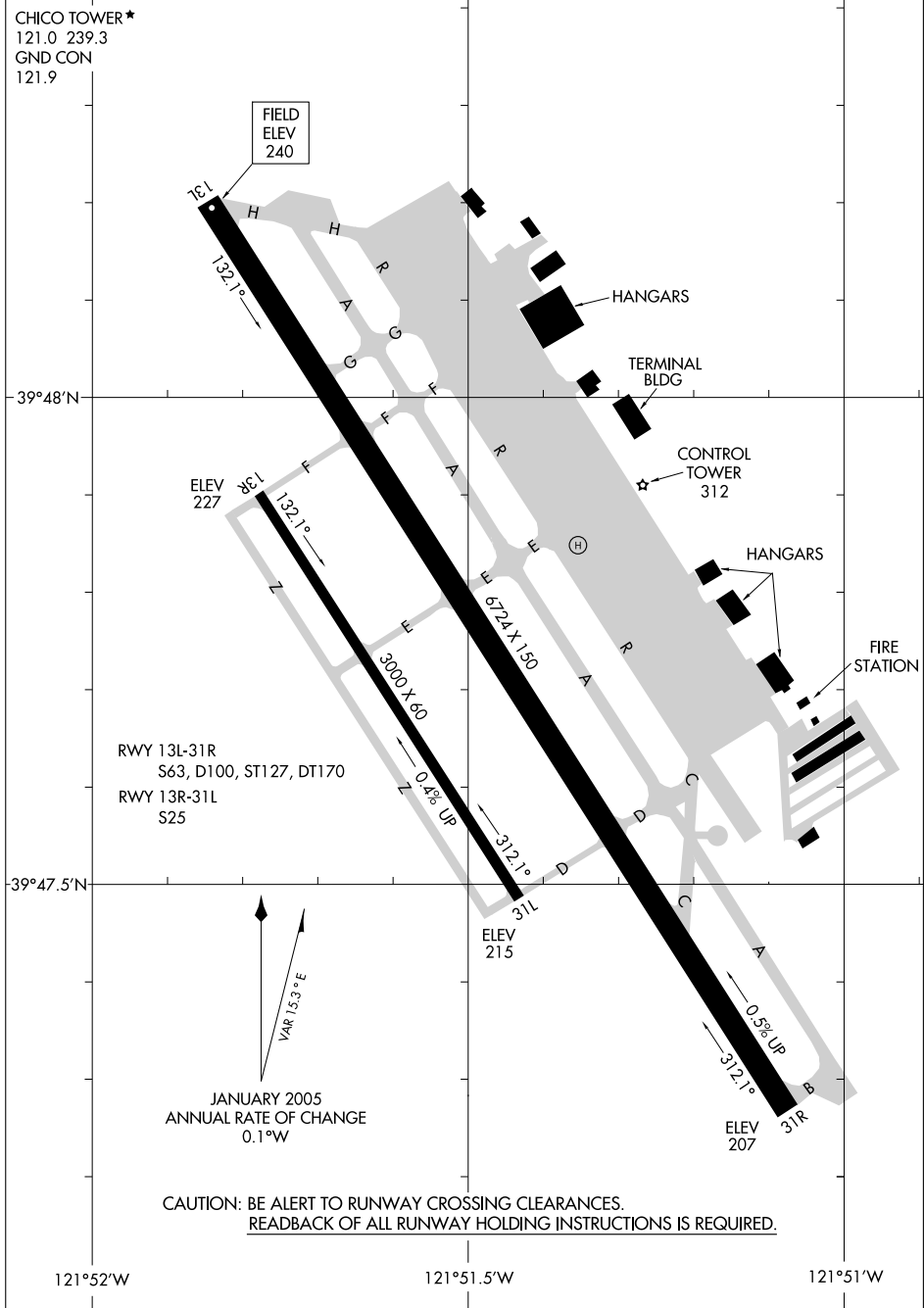
FAF to MAP 9.4 NM

Knots	60	90	120	150	180
Min:Sec	9:24	6:16	4:42	3:46	3:08

AIRPORT DIAGRAM

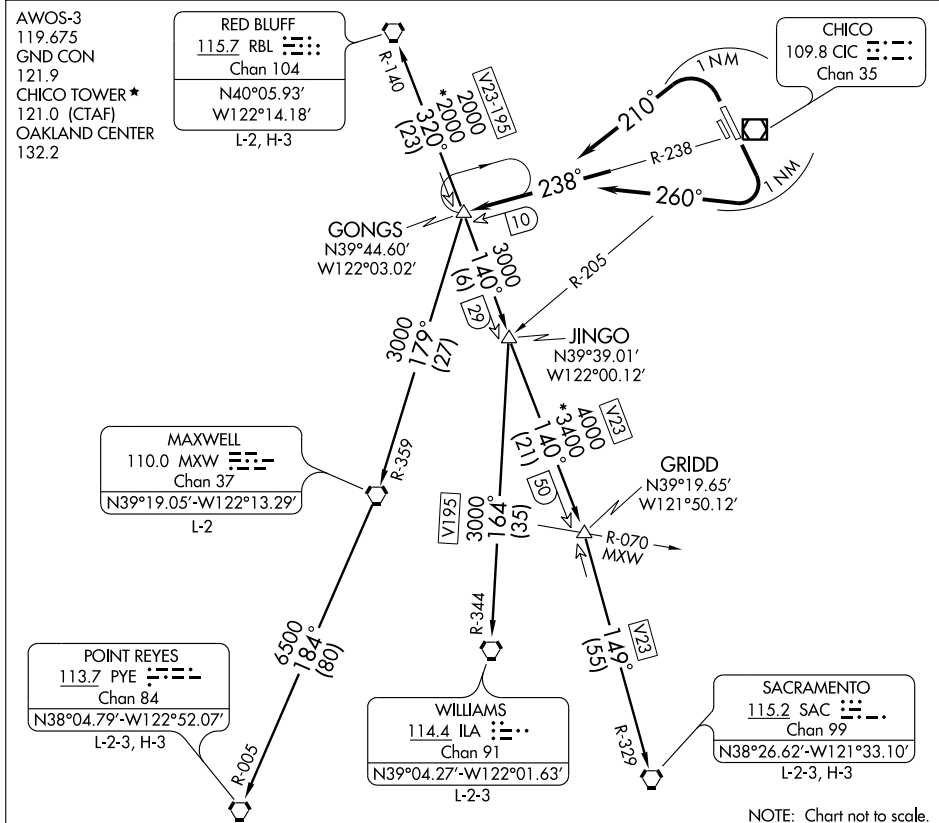
AL-557 (FAA)

CHICO MUNI (CIC)
CHICO, CALIFORNIA



GONGS ONE DEPARTURE

SL-557 (FAA)

CHICO MUNI (CIC)
CHICO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Turn right heading 260° within 1 NM of take-off; intercept CIC R-238 to GONGS INT. Thence....

TAKE-OFF RUNWAYS 31L/R: Turn left heading 210° within 1 NM of take-off; intercept CIC R-238 to GONGS INT. Thence....

....via (transition) or (assigned route).

MAXWELL TRANSITION (GONGS1.MXW): From over GONGS INT via MXW R-359 to MXW VORTAC.

POINT REYES TRANSITION (GONGS1.PYE): From over GONGS INT via MXW R-359 to MXW VORTAC; then via MXW R-184 and PYE R-005 to PYE VORTAC.

RED BLUFF TRANSITION (GONGS1.RBL): From over GONGS INT via RBL R-140 to RBL VORTAC.

SACRAMENTO TRANSITION (GONGS1.SAC): From over GONGS INT via V23 and SAC R-329 to SAC VORTAC.

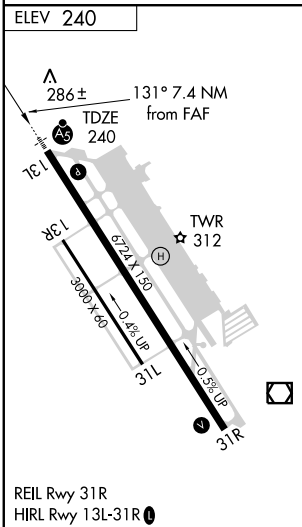
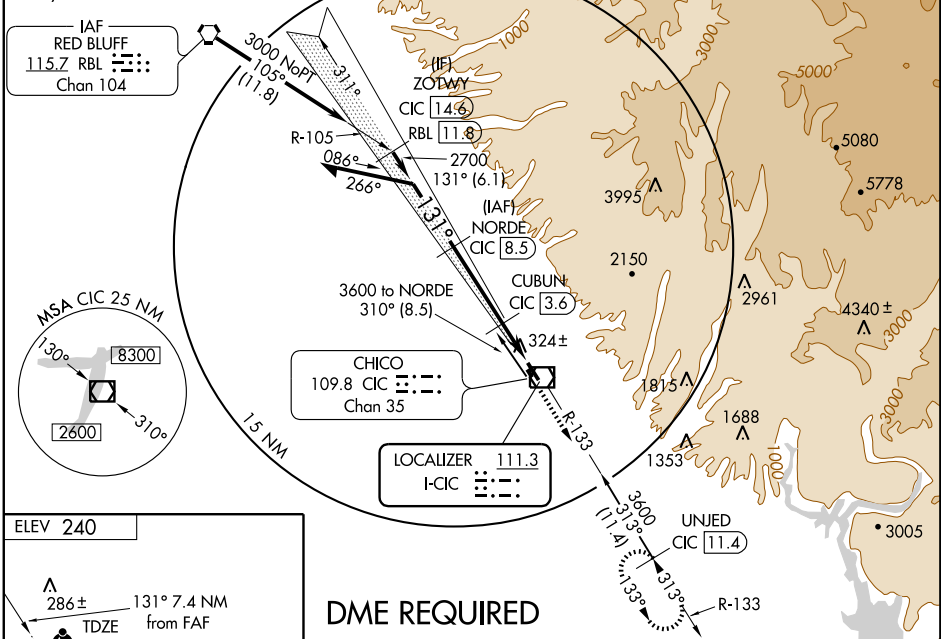
WILLIAMS TRANSITION (GONGS1.ILA): From over GONGS INT via RBL R-140 and V195 to ILA VORTAC.

ILS or LOC/DME RWY 13L
CHICO MUNI (CIC)

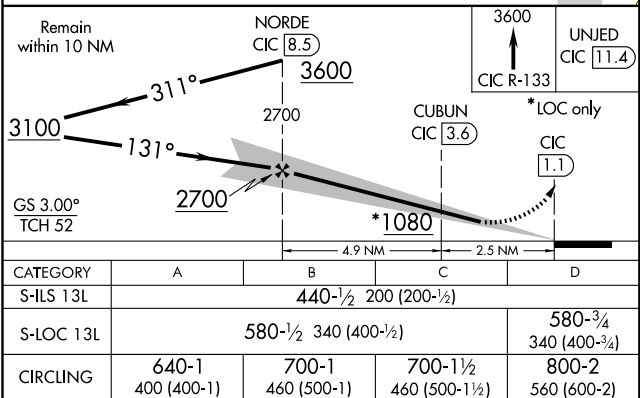
MALSR

MISSED APPROACH: Climb to 3600 via CIC VOR/DME R-133 to UNJED/CIC 11.4 DME and hold, continue climb-in-hold to 3600.

Procedure NA for arrivals on Red Bluff VORTAC
airway radials 122 CW 161.



DME REQUIRED



NA

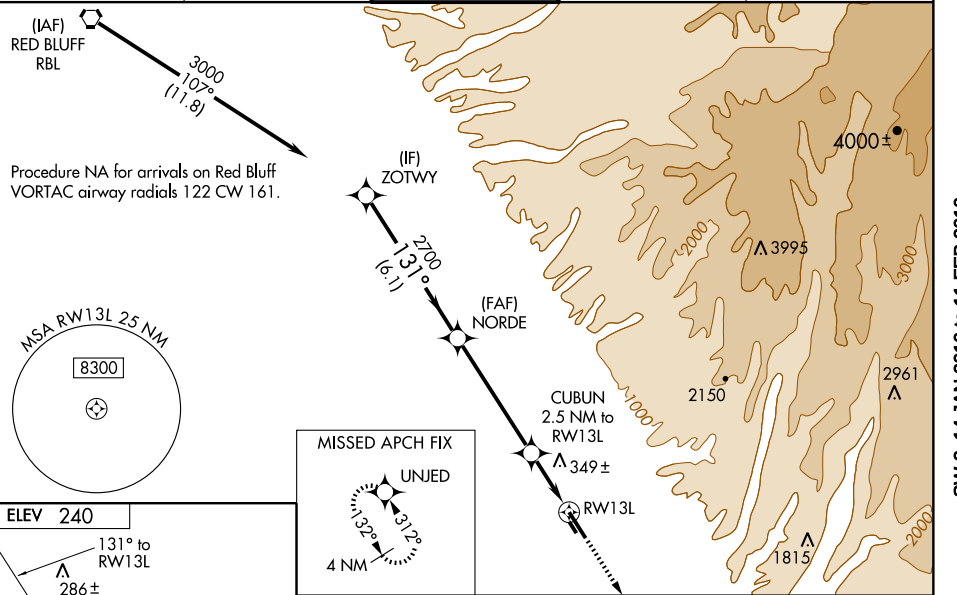
Inoperative table does not apply to LPV and LNAV Cats A/B/C. For inoperative MALS, increase LNAV Cat D visibility to 1¼. Circling NA east of Rwy 13L/31R. Baro-VNAV NA when using Red Bluff altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Red Bluff Muni altimeter setting and increase all DA 81 feet, and all MDA 100 feet, increase LNAV/VNAV all Cats visibility ¼ mile. For inoperative MALS when using Red Bluff altimeter setting, LNAV Cats A/B inoperative table does not apply, increase Cat C visibility ¼ mile.

MALS

A5

MISSED APPROACH: Climb to 3600 direct UNJED and hold, continue climb-in-hold to 3600.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER ★ 121.0 (CTAF) 0 239.3	GND CON 121.9	UNICOM 122.95
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ZOTWY		NORDE		3600	UNJED
3000		2700		UNJED only	
Procedure Turn NA		CUBUN 2.5 NM to RW13L		RW13L	
GS 3.00° TCH 52		*1080			
		6.1 NM	4.9 NM	2.5 NM	
CATEGORY	A	B	C	D	
LPV DA	536-1 296 (300-1)				
LNAV/VNAV DA	648-1 408 (500-1)				
LNAV MDA	600-1 360 (400-1)				
CIRCLING	640-1	700-1	700-1½	800-2	
	400 (500-1)	460 (500-1)	460 (500-1½)	560 (600-2)	

REIL Rwy 31R

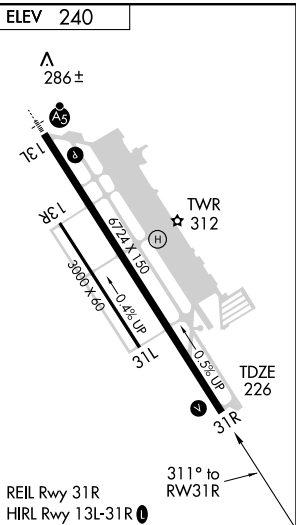
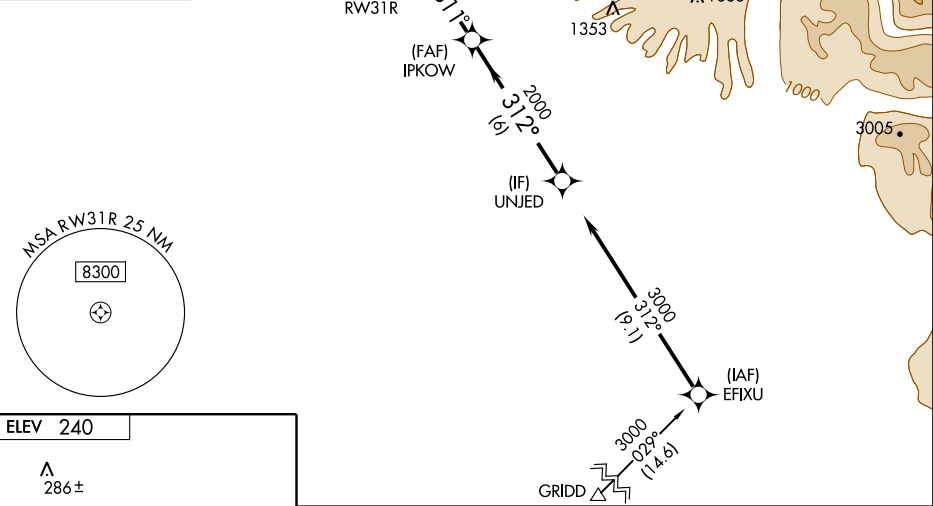
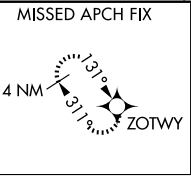
HIRL Rwy 13L-31R

WAAS CH 77912 W31A	APP CRS 311°	Rwy Idg TDZE Apt Elev	6724 226 240
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⚠ Circling NA east of Rwy 13L/31R. Baro-VNAV NA when using Red Bluff altimeter setting.
⚠ NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Red Bluff altimeter setting and increase all DA 81 feet and MDA 100 feet and increase LPV visibility all Cats ¼ mile, visibility LNAV/VNAV all Cats ½ mile and visibility LNAV Cats C/D ¼ mile. VDP NA when using Red Bluff altimeter setting.

MISSED APPROACH: Climb to 3000 direct ZOTWY and hold.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER ★ 121.0 (CTAF) 0 239.3	GND CON 121.9	UNICOM 122.95
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	3000	ZOTWY	*LNAV only	STARW 2.5 NM to RW31R	IPKOW	UNJED	
				*1.1 NM to RW31R			3000
							Procedure Turn NA
							GS 3.00° TCH 50
CATEGORY	A	B	C	D			
LPV DA	476-1			250 (300-1)			
LNAV/VNAV DA	733-1¾			507 (500-1¾)			
LNAV MDA	600-1			374 (400-1)	600-1¼ 374 (400-1¼)		
CIRCLING	640-1 400 (400-1)	700-1 460 (500-1)	700-1½ 460 (500-1½)	800-2 560 (600-2)			

VOR/DME CIC	APP CRS	Rwy Idg	6724
109.8	122°	TDZE	238
Chan 35		Apt Elev	238

VOR/DME RWY 13L

CHICO MUNI (CIC)

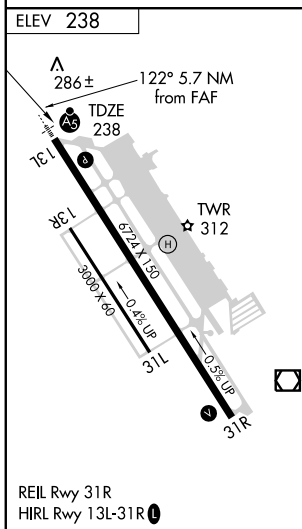
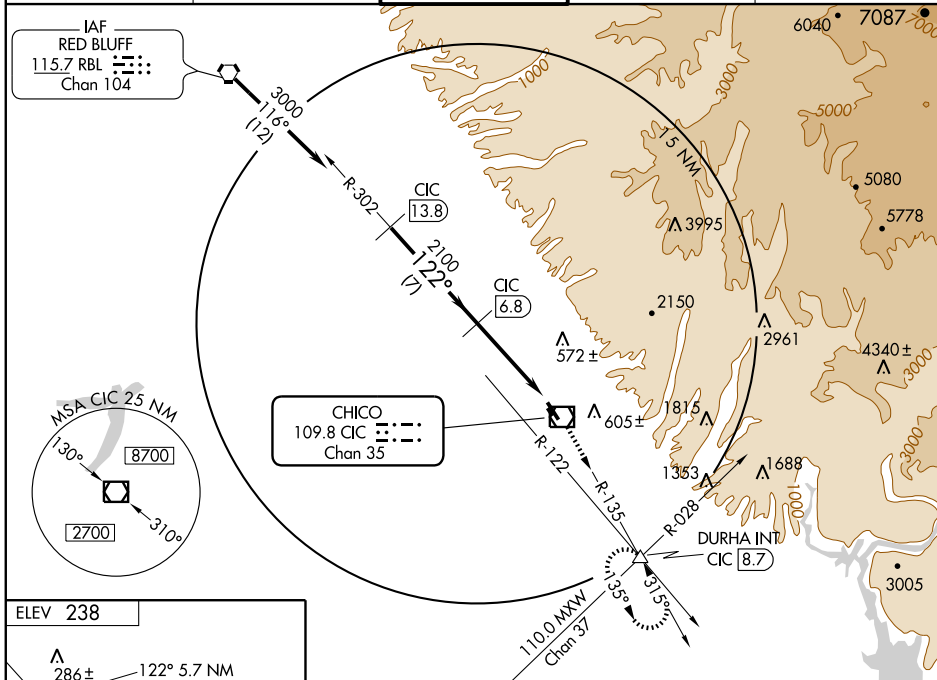
⚠ Circling not authorized east of Rwy 13L-31R.
⚠ When control tower closed, except for operators with approved weather reporting service, use Red Bluff altimeter setting.
 Local altimeter setting minimums: for inoperative MALSR, increase S-13L Cat. D visibility to 1¼.
 VDP NA when using Red Bluff altimeter setting.

MALSR



MISSED APPROACH: Climb to 2500
 via CIC R-135 to DURHA INT/CIC 8.7
 DME and hold.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER★ 121.0 (CTAF) 0 239.3	GND CON 121.9	UNICOM 122.95
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	CIC 13.8	CIC 6.8	CIC 2.2	CIC 1.5	2500	DURHA △
	3000	2100				
	122°	3.01°				
	7 NM	4.6 NM	0.7	0.4		
CATEGORY	A	B	C	D		
S-13L	640-½	402 (500-½)	640-¾ 402 (500-¾)	640-1 402 (500-1)		
CIRCLING	640-1 402 (500-1)	700-1 462 (500-1)	700-1½ 462 (500-1½)	800-2 562 (600-2)		
RED BLUFF ALTIMETER SETTING MINIMUMS						
S-13L	780-½	542 (600-½)	780-1 542 (600-1)	780-1¼ 542 (600-1¼)		
CIRCLING	780-1	542 (600-1)	780-1½ 542 (600-1½)	800-2 562 (600-2)		

VOR/DME CIC 109.8 Chan 35	APP CRS 327°	Rwy Idg TDZE Apt Elev	6724 224 238
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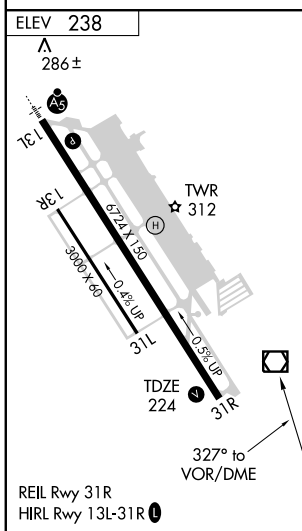
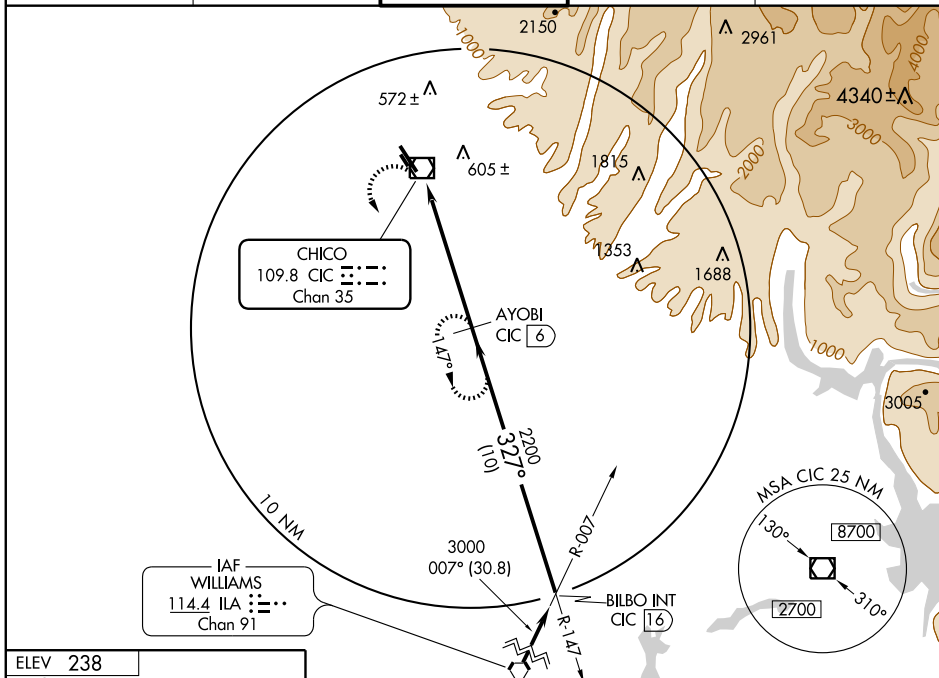
VOR/DME RWY 31R

CHICO MUNI (CIC)

⚠ Circling not authorized east of Rwy 13L-31R.
⚠ When control tower closed, except for operators with approved weather reporting service, use Red Bluff altimeter setting.

MISSED APPROACH: Climbing left turn to 2000 via
CIC R-147 to AYOB1/6 DME and hold.

AWOS-3 119.675	OAKLAND CENTER 132.2 350.3	CHICO TOWER ★ 121.0 (CTAF) 239.3	GND CON 121.9	UNICOM 122.95
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2000



CIC R-147

AYOBI

CIC

6

BILBO INT

CIC

16

VOR/DME

AYOBI

CIC

6

3000

327°

2200

≤ 3.05°

TCH 50

6 NM

10 NM

Procedure Turn

NA

CATEGORY	A	B	C	D
S-31R	760-1	536 (600-1)	760-1½ 536 (600-1½)	760-1¾ 536 (600-1¾)
CIRCLING	760-1	522 (600-1)	760-1½ 522 (600-1½)	800-2 562 (600-2)

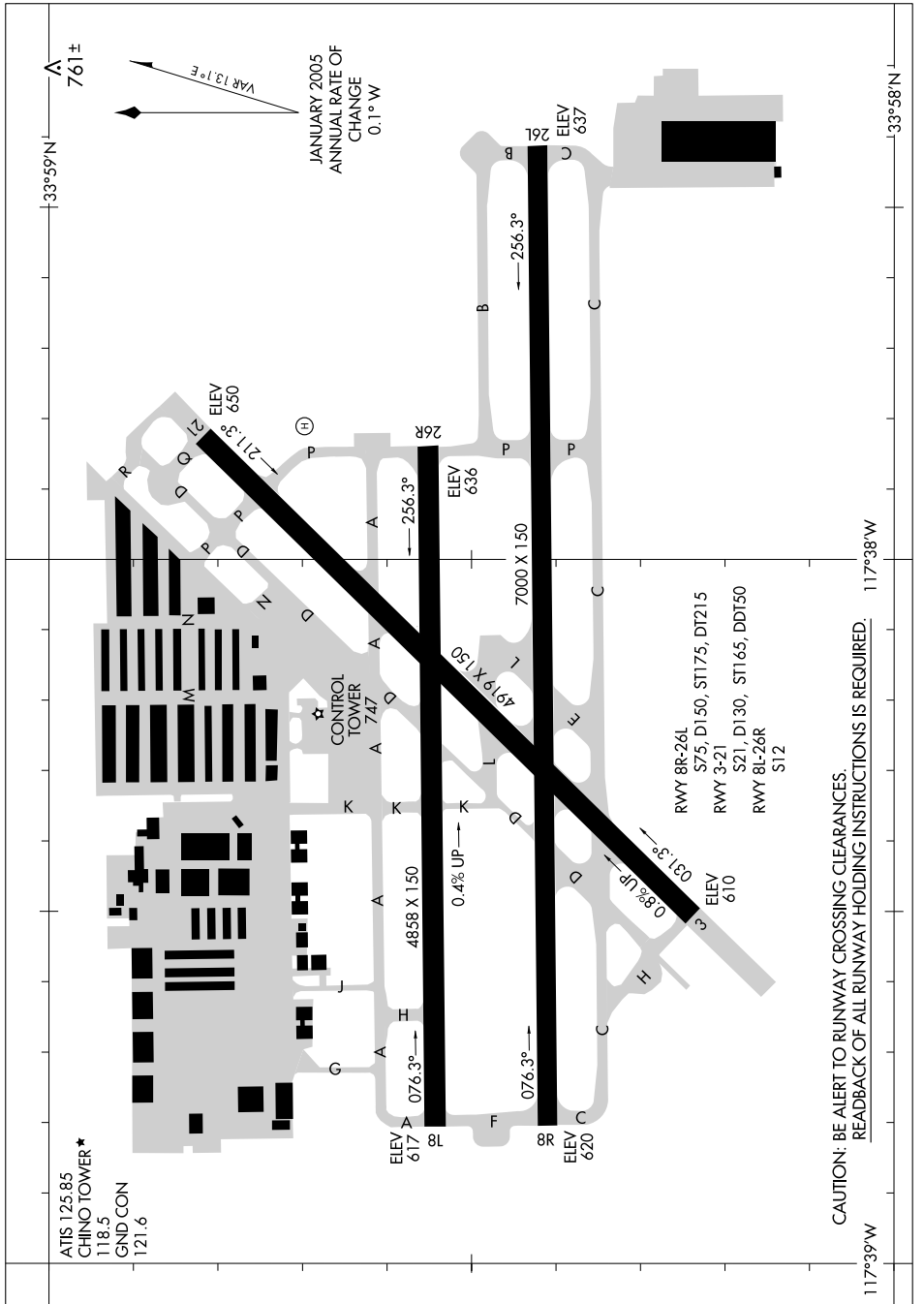
RED BLUFF ALTIMETER SETTING MINIMUMS

S-31R	840-1	616 (700-1)	840-1¾ 616 (700-1¾)	840-2 616 (700-2)
CIRCLING	840-1	602 (700-1)	840-1¾ 602 (700-1¾)	840-2 602 (700-2)

AIRPORT DIAGRAM

AL-5599 (FAA)

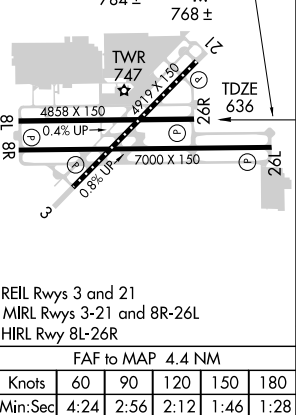
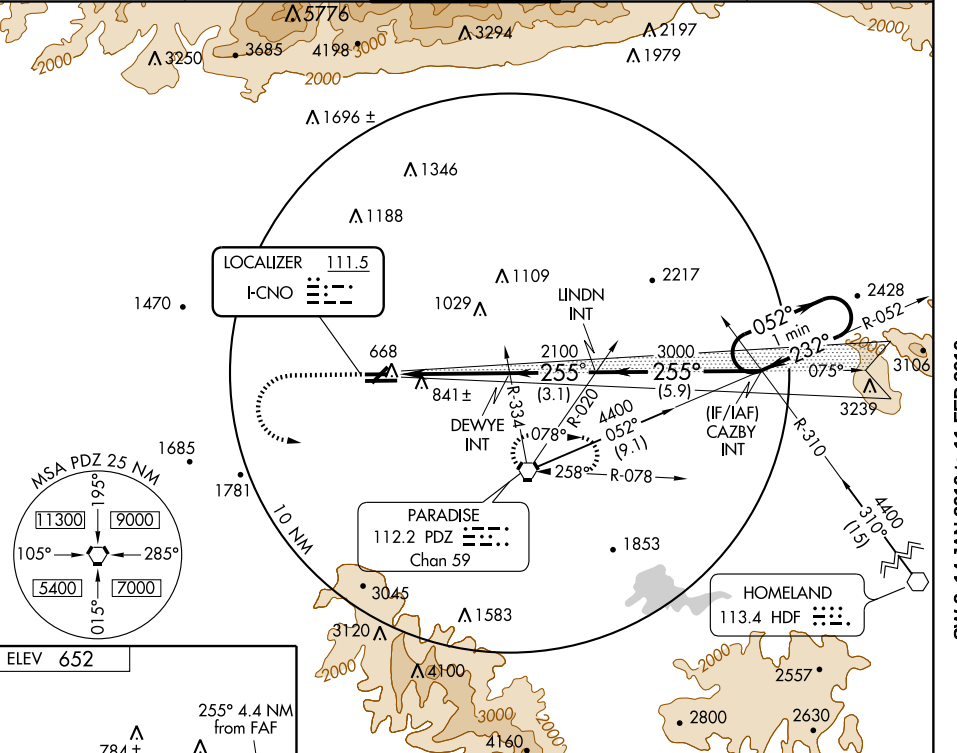
CHINO (CNO)
CHINO, CALIFORNIA



▼
▲

MISSED APPROACH: Climb to 1100 then climbing left turn to 4000 direct PDZ VORTAC and hold.

ATIS 125.85	SOCAL APP CON 135.4 377.125	CHINO TOWER ★ 118.5 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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	1100	4000	PDZ 112.2		
				LINDN INT	CAZBY INT
				DEWYE INT	
				2100	255°
					052°
					232°
					4400
					GS 3.00° TCH 51'
CATEGORY	A	B	C	D	
S-ILS 26R	886-3/4 250 (300-3/4)				
S-LOC 26R	1060-1 424 (500-1)		1060-1 1/4 424 (500-1 1/4)		
CIRCLING	1180-1 528 (600-1)		1180-1 1/2 528 (600-1 1/2)		1220-2 568 (600-2)

SW-3. 14 JAN 2010 to 11 FEB 2010

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 4000 direct IRUYI and via 241° track to LAHAB and hold.

ATIS 125.85	SOCAL APP CON 135.4 377.125	CHINO TOWER★ 118.5 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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ELEV 652

4000	IRUYI	241° track	LAHAB	UNDN	CAZBY	4 NM Holding Pattern
*LNAV only						
1.8 NM to RWY26R						
RWY26R 255° 2100 3000 4400 076° 256° GS 3.00° TCH 51						
1.8 2.6 NM 3.1 NM 5.9 NM						
CATEGORY	A		B		C	
LPV DA	1030-1¼		394 (400-1¼)			
LNAV/VNAV DA	1117-2		541 (600-2)			
LNAV MDA	1260-1 624 (700-1)		1260-1¼ 624 (700-1¼)		1260-2 624 (700-2)	
CIRCLING	1260-1¼ 608 (700-1¼)				1260-2 608 (700-2)	

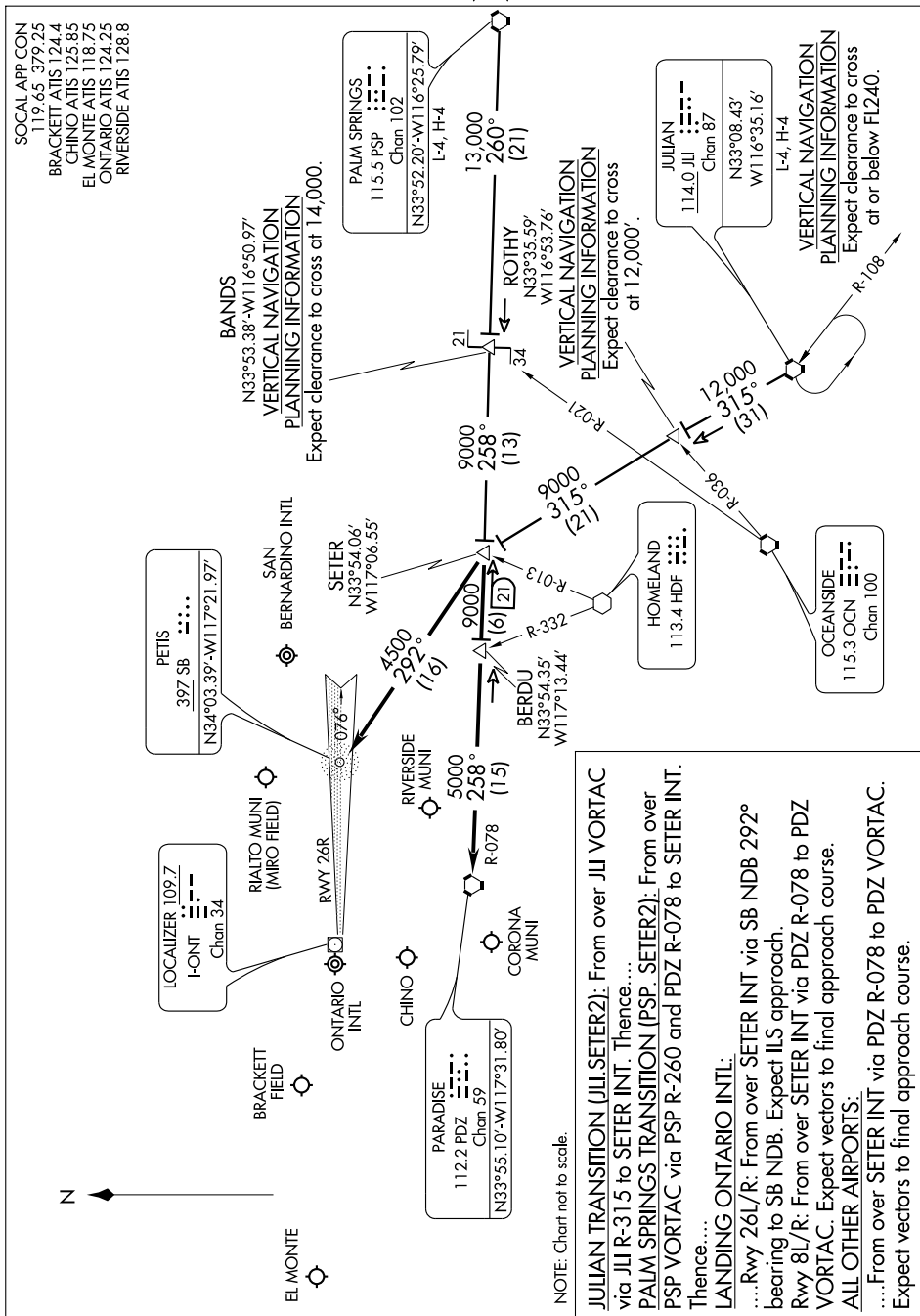
REIL Rwy 3 and 21
MIRL Rwy 3-21 and 8R-26L
HIRL Rwy 8L-26R

SW-3, 14 JAN 2010 to 11 FEB 2010

SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA

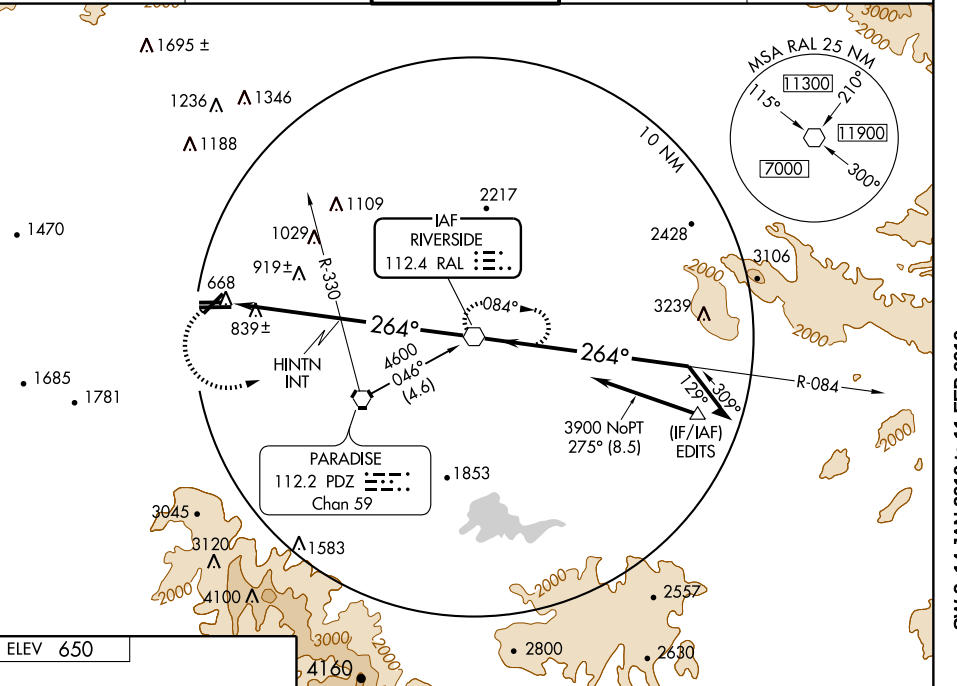


Visibility reduction by helicopters NA.

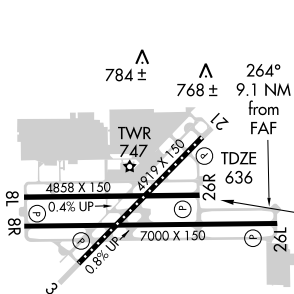
When local altimeter setting not received, use Riverside Muni altimeter setting and increase all MDA 60 feet, increase HINTN FIX minimums S-26R and circling Cat B, C, and D visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4500 direct RAL VOR and hold, continue climb-in-hold to 4500.

ATIS 125.85	SOCAL APP CON 135.4 377.125	CHINO TOWER* 118.5 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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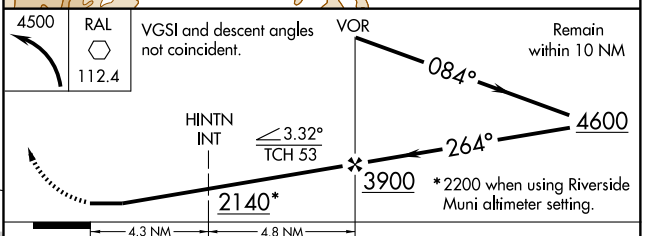
ELEV 650



REIL Rwy 3 and 21
MIRL Rwy 3-21 and 8R-26L
HIRL Rwy 8L-26R

FAF to MAP 9.1 NM

Knots	60	90	120	150	180
Min:Sec	9:06	6:04	4:33	3:38	3:02



CATEGORY	A	B	C	D
S-26R	2140-1¼ 1504 (1500-1¼)	2140-1½ 1504 (1500-1½)	2140-3	1504 (1500-3)
CIRCLING	2140-1¼ 1490 (1500-1¼)	2140-1½ 1490 (1500-1½)	2140-3	1490 (1500-3)
HINTN FIX MINIMUMS				
S-26R	1320-1	684 (700-1)	1320-2 684 (700-2)	1320-2¼ 684 (700-2¼)
CIRCLING	1320-1	670 (700-1)	1320-2 670 (700-2)	1320-2¼ 670 (700-2¼)

ZIGGY FOUR ARRIVAL

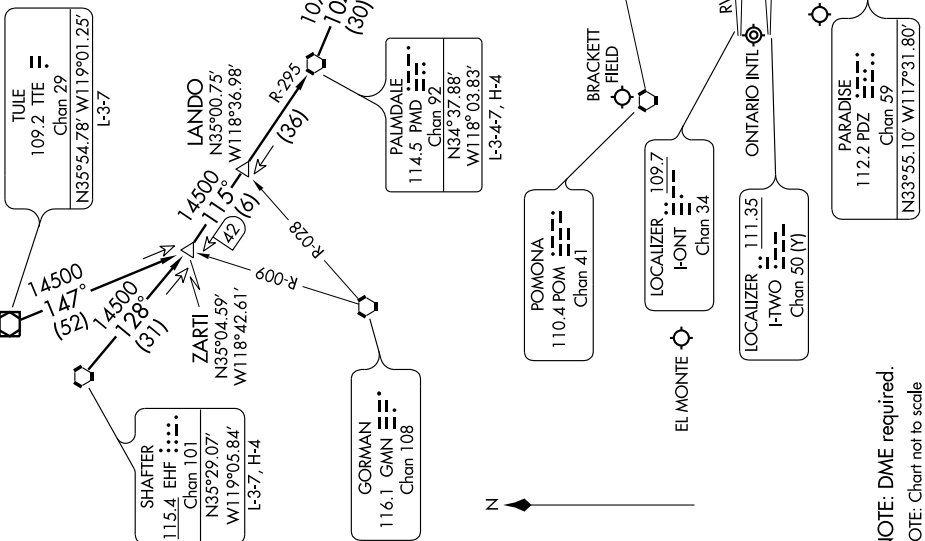
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

APP CRS
314°

Rwy Idg
TDZE
Apt Elev

2645
271
272

RNAV (GPS) RWY 32

CLOVERDALE MUNI (060)

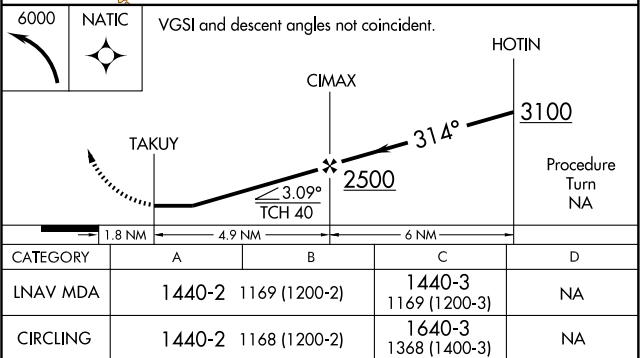
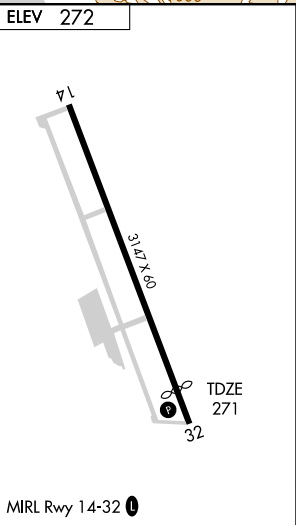
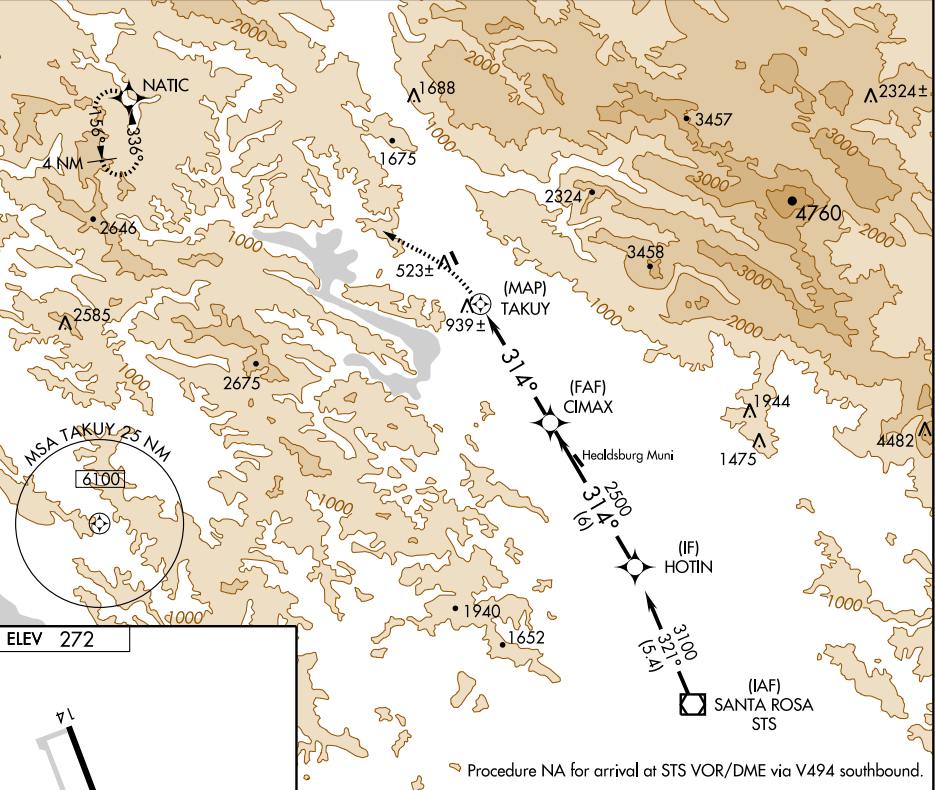
NA

Use Santa Rosa/Charles M. Schulz-Sonoma Co. altimeter setting;
when not received procedure NA.
Procedure NA at night. Circling NA east of Rwy 14-32
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

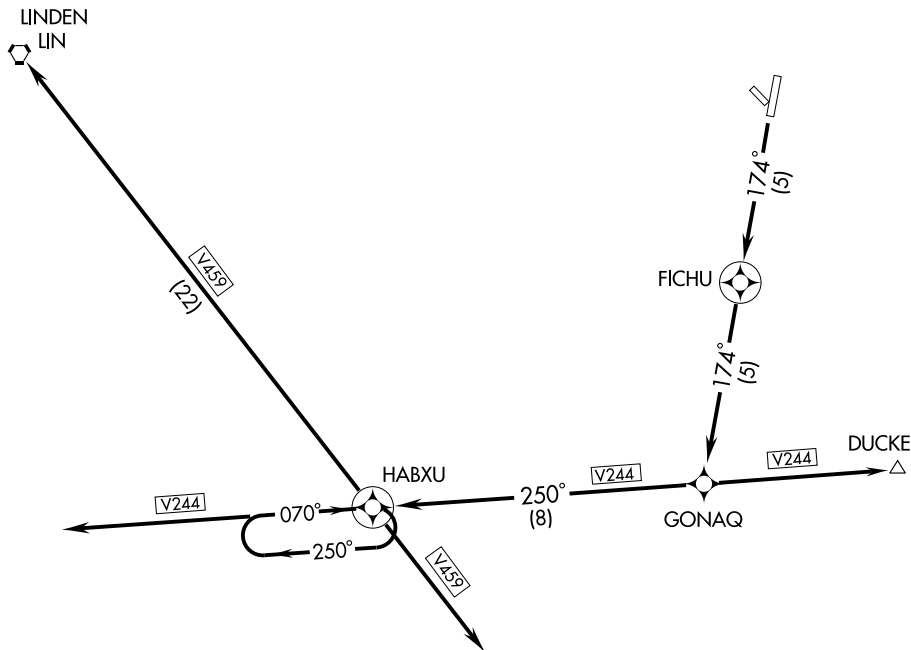
MISSED APPROACH: Climbing left turn
to 6000 direct NATIC WP and hold.

OAKLAND CENTER
127.8 353.5

UNICOM
122.8 (CTAF)



NORCAL DEP CON
(N) 123.7 338.25
(W) 125.1 363.2
OAKLAND CENTER
(E) 126.85 322.55
RANCHO MURIETA RADIO
122.3



NOTE: Runway 17: 300-1 with a climb rate of 300' per NM to 3000'.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb to 4000 via 174° course to FICHU WP, 174° course to GONAQ WP, 250° course to HABXU WP; Aircraft V-459 southeast, northwest and V-244 westbound proceed on course; Aircraft departing V-244 eastbound climb in HABXU WP holding pattern to 8000, Then proceed on course.

TAKE-OFF RUNWAY 35: Not authorized.

GPS RWY 35
COLUMBIA (022)

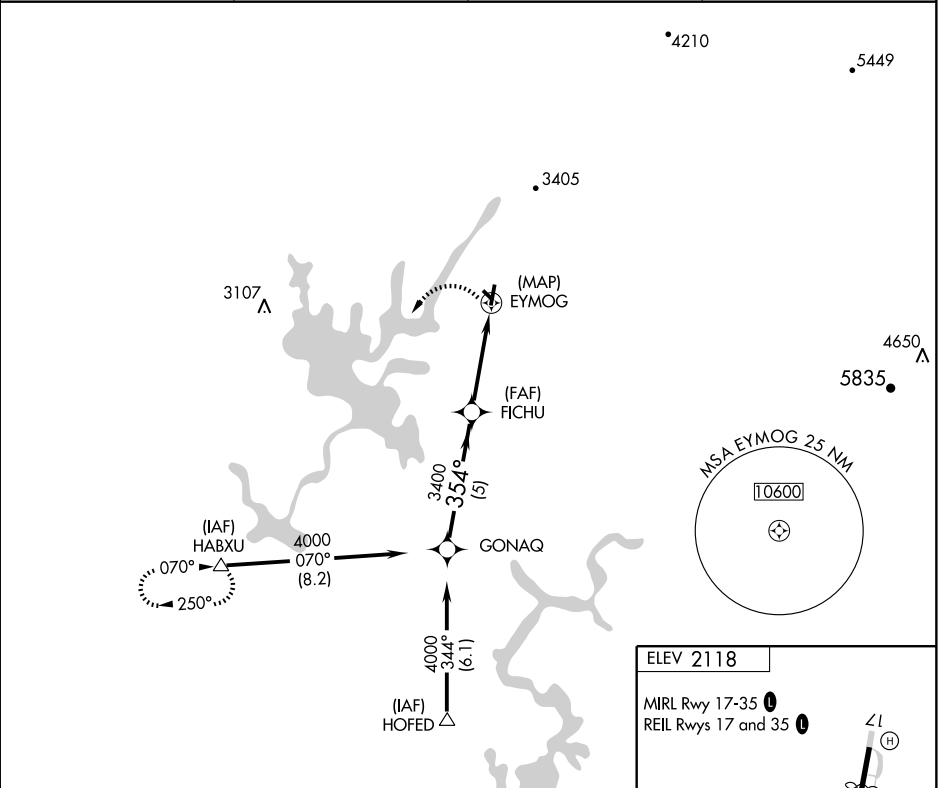
APP CRS	Rwy Idg	4286
354°	TDZE	2103
	Apt Elev	2118

▽ If local altimeter setting not received, procedure not authorized.

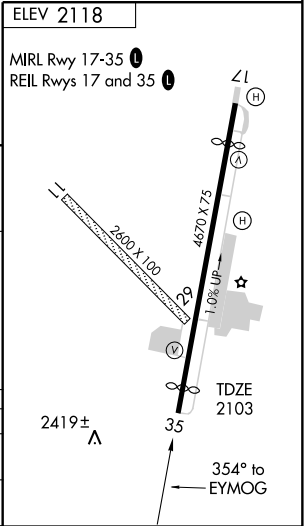
△NA Circling not authorized east of Rwy 17-35.

MISSED APPROACH: Climbing left turn to 4000 direct HABXU WP and hold.

AWOS-3 124.65	NORCAL APP CON (N) 123.7 338.25 (W) 125.1 363.2	OAKLAND CENTER (E) 126.85 322.55	UNICOM 122.975 (CTAF) 0
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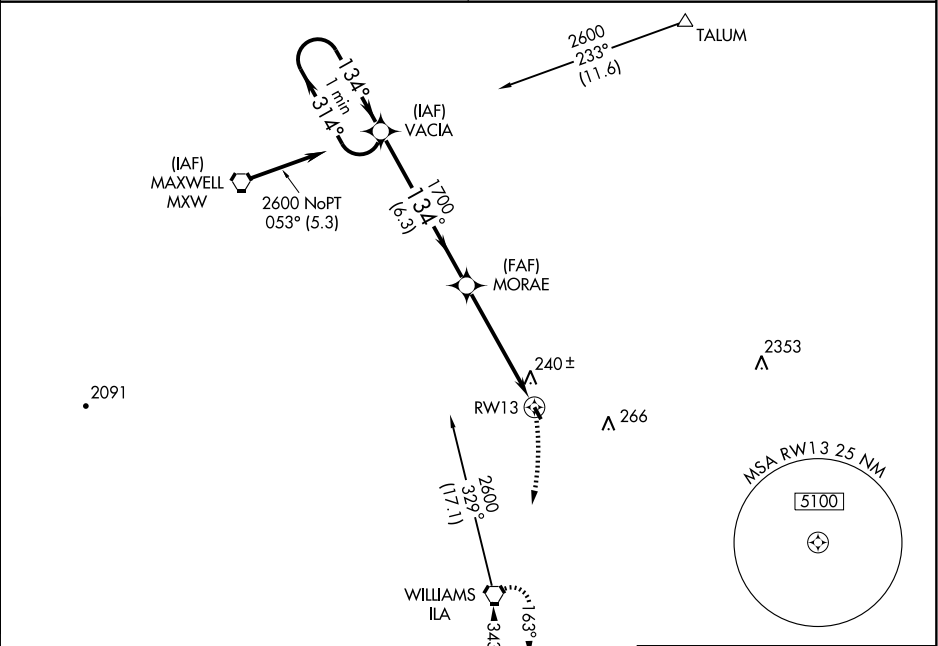


Procedure Turn NA 4000 354° FICHU 3400 EYMOG 5 NM 4 NM				
CATEGORY	A	B	C	D
S-35	2800-1	697 (700-1)	2800-2 697 (700-2)	NA
CIRCLING	2800-1 682 (700-1)	2840-1 722 (800-1)	2840-2 722 (800-2)	NA

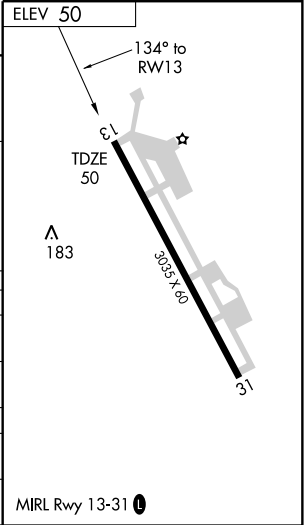


APP CRS	Rwy Idg	3035
134°	TDZE	50
	Apt Elev	50

NA Obtain local altimeter setting on CTAF; when not received, use Sacramento Intl altimeter setting.	MISSED APPROACH: Climbing right turn to 4000 direct ILA VORTAC and hold.
OAKLAND CENTER 132.2 350.3	UNICOM 122.8 (CTAF) 0



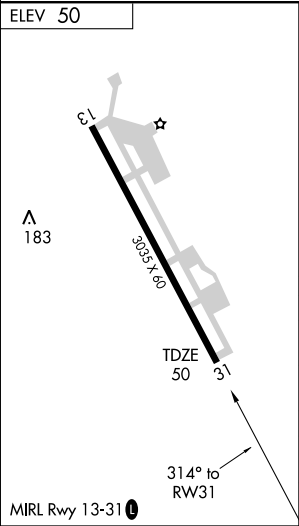
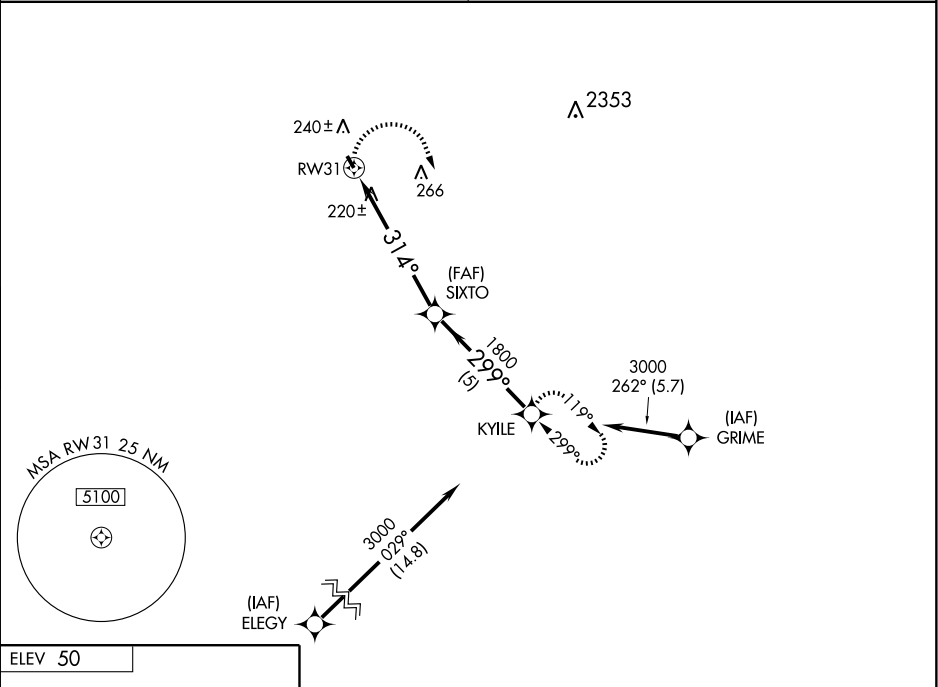
One Minute Holding Pattern VACIA 2600 ← 314° / 134° → VDP and descent angle/gradient NA with Sacramento Intl altimeter setting. MORAE 1700 1.4 NM to RW13 3.04° TCH 40 6.3 NM 3.6 NM 1.4 4000 ILA				
CATEGORY	A	B	C	D
S-13	540-1	490 (500-1)	540-1¼ 490 (500-1¼)	NA
CIRCLING	600-1	550 (600-1)	600-1½ 550 (600-1½)	NA
SACRAMENTO ALTIMETER SETTING MINIMUMS				
S-13	640-1	590 (600-1)	640-1½ 590 (600-1½)	NA
CIRCLING	680-1	630 (700-1)	680-1¾ 630 (700-1¾)	NA



APP CRS	Rwy Idg	3035
314°	TDZE	50
	Apt Elev	50

GPS RWY 31
COLUSA COUNTY (008)

▽ NA Obtain local altimeter setting on CTAF; when not received, use Sacramento Intl altimeter setting.	MISSED APPROACH: Climbing right turn to 4000 direct to KYILE WP and hold.
OAKLAND CENTER 132.2 350.3	UNICOM 122.8 (CTAF) 0



4000	KYILE	VDP and descent angle NA with Sacramento Intl altimeter.			
		Diagram showing the descent path from 4000' to 1800' and 3000' altitudes, with distances of 1.4 NM to RWY 31, 4.6 NM, and 5 NM.			
		Procedure Turn NA			
CATEGORY	A	B	C	D	
S-31	520-1	470 (500-1)	520-1¼ 470 (500-1¼)	NA	
CIRCLING	600-1	550 (600-1)	600-1½ 550 (600-1½)	NA	
SACRAMENTO INTL ALTIMETER SETTING MINIMUMS					
S-31	620-1	580 (600-1)	620-1½ 580 (600-1½)	NA	
CIRCLING	680-1	630 (700-1)	680-1¾ 630 (700-1¾)	NA	

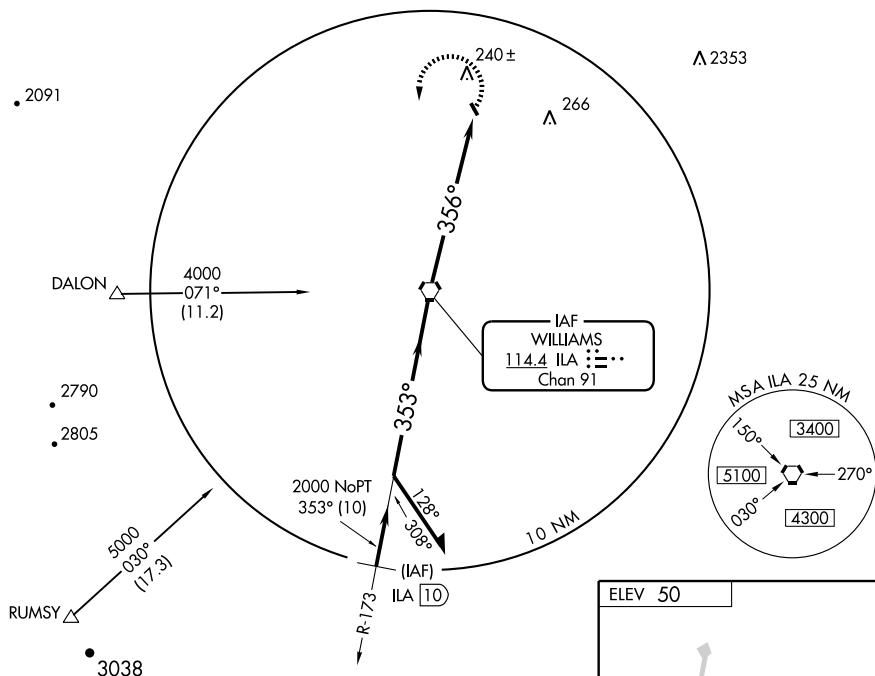
VORTAC 1LA 114.4 Chan 91	APP CRS 356°	Rwy Idg TDZE Apt Elev	N/A N/A 50
--	------------------------	-----------------------------	---------------------------------------

VOR-A
COLUSA COUNTY (008)

T	Obtain local altimeter setting on CTAF; when not
A NA	received, use Sacramento Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 4000 direct ILA VORTAC.

OAKLAND CENTER
132.2 350.3

UNICOM
122.8 (CTAF) **L**

SW-2: 14 JAN 2010 to 11 FEB 2010

Remain
within 10 NM

VORTAC

3500

ILA

100

5x60

2

1

CATEGORY	A	B	C	D
----------	---	---	---	---

CIRCLING	600-1 550 (600-1)	NA
----------	-------------------	----

SACRAMENTO INTL ALTIMETER SETTING MINIMUMS

CIRCLING	680-1 630 (700-1)	NA
----------	-------------------	----

ELEV 50

183

356° 6.6 NM
from FAF

MIRL Rwy 13-31 **L**

Knots	60	90	120	150	180
Min:Sec	6:36	4:24	3:18	2:38	2:12

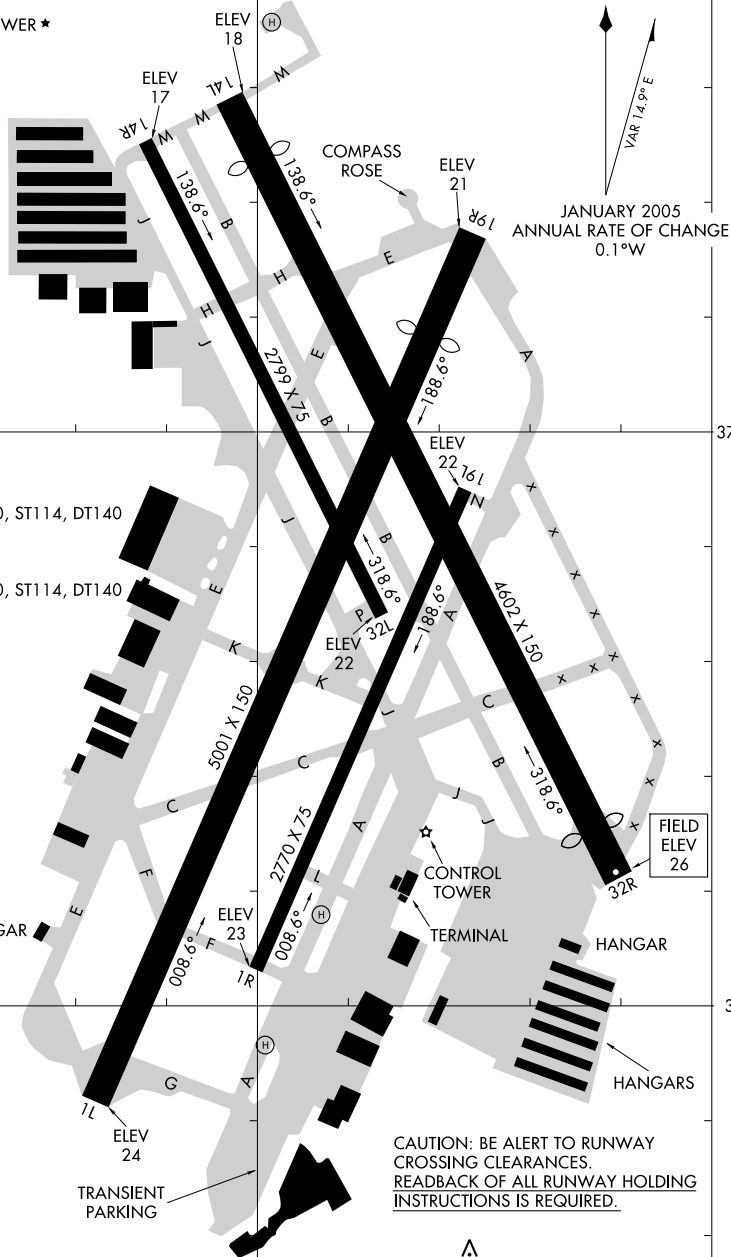
AIRPORT DIAGRAM

AL-5320 (FAA)

CONCORD/BUCHANAN FIELD (CCR)
CONCORD, CALIFORNIA

ATIS
124.7
CONCORD TOWER ★
119.7 257.8
GND CON
121.9
CLNC DEL
118.75

D



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

129

122°03.5'W

122°03'W

SW-2 14 JAN 2010 to 11 FEB 2010

GND CON

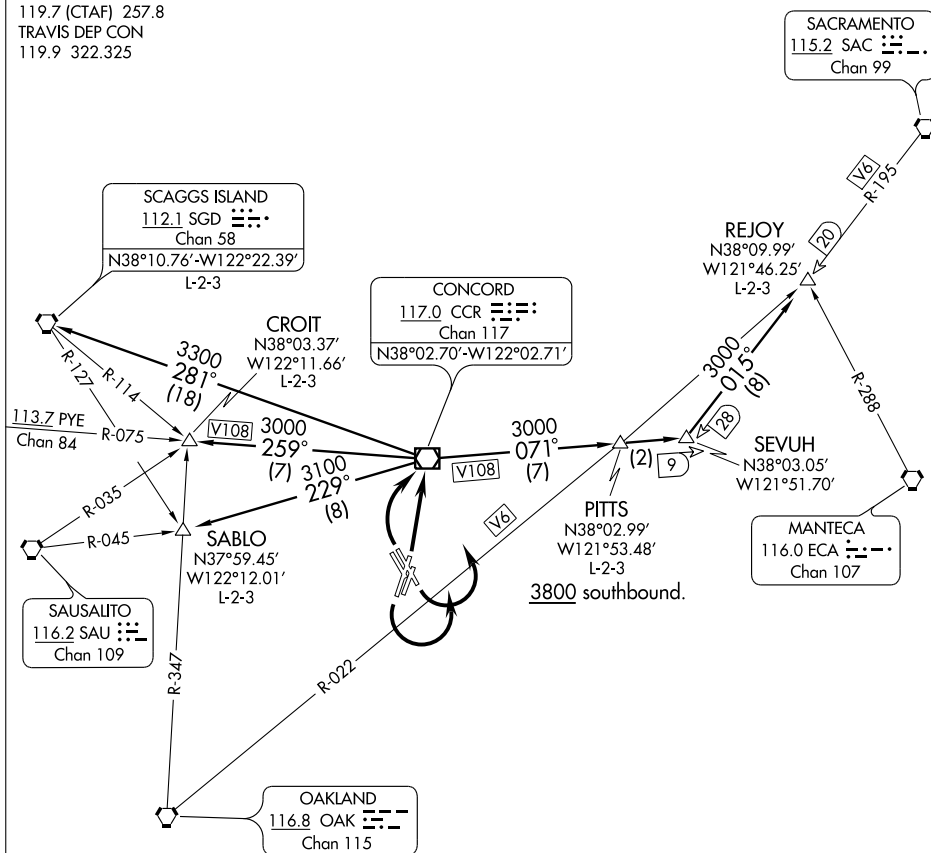
121 9

CONCORD TOWER ★

119.7 (CTAF) 257.8

TRAVIS DEP CON

119.9 322.325



TAKE-OFF MINIMUMS

Rwys 1L, 14L, 19R, 32R: Standard with the following minimum climb requirements:

Rwy 1L: Obstacle climb of 360' per NM to 1100 (3800 for PITTS Transition).

ATC climb of 360' per NM to 3000.

Rwy 14L: Obstacle climb of 420' per NM to 2700 (3800 for PITTS Transition).

ATC climb of 420' per NM to 3000.

Rwy 19R: Obstacle climb of 490' per NM to 4000.

Rwy 32R: Obstacle climb of 360' per NM to 500 (3800 for PITTS Transition).

ATC climb of 320' per NM to 3000.

Rwys 1R, 14R, 19L, 32L: NA-air traffic.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-2. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb direct CCR VOR/DME . Thence

TAKE-OFF RUNWAY 14L: Climbing left turn direct CCR VOR/DME. Thence

TAKE-OFF RUNWAY 19R: Climbing left turn direct CCR VOR/DME. Thence

TAKE-OFF RUNWAY 32R: Climbing right turn direct CCR VOR/DME. Thence

....via (transition) or (assigned route).

CROIT TRANSITION (BCHN9.CROIT): From over CCR VOR/DME via CCR R-259 to CROIT INT.

PITTS TRANSITION (BCHN9.PITTS): From over CCR VOR/DME via CCR R-071 to PITTS INT.

REJOY TRANSITION (BCHN9.REJOY): From over CCR VOR/DME via CCR R-071 and SAC R-195 to REJOY INT.

SABLO TRANSITION (BCHN9.SABLO): From over CCR VOR/DME via CCR R-229 to SABLO INT.

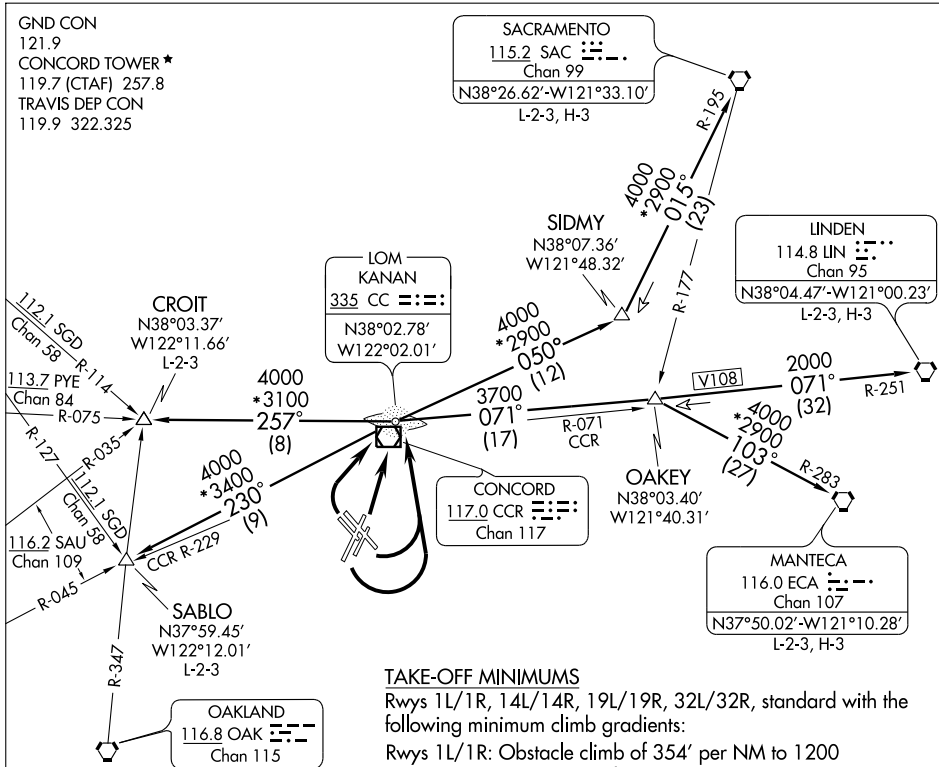
SCAGGS ISLAND TRANSITION (BCHN9.SGD): From over CCR VOR/DME via CCR R-281 to SGD VORTAC.

TAKE-OFF OBSTACLE NOTES

- Rwy 1L: Multiple trees and bushes beginning 675' from DER, 9' left of centerline, up to 48' AGL/98' MSL.
Multiple poles, light poles and antennas on buildings beginning 639' from DER, 120' left of centerline, up to 50' AGL/72' MSL.
Fence 117' from DER, 2' right of centerline, 12' AGL/29' MSL.
Sign 1996' from DER, 812' left of centerline, 45' AGL/78' MSL.
Flagpole 1520' from DER, 753' left of centerline, 40' AGL/71' MSL.
- Rwy 14L: Multiple trees beginning 841' from DER, 61' left of centerline, up to 78' AGL/102' MSL.
Building 1071' from DER, 35' left of centerline, 30' AGL/58' MSL.
Fence 225' from DER, 29' left of centerline, 12' AGL/33' MSL.
- Rwy 19R: Multiple trees beginning 604' from DER, 82' left of centerline, up to 70' AGL/108' MSL.
Light pole 1392' from DER, 749' right of centerline, 51' AGL/71' MSL.
OL on building 2451' from DER, 911' left of centerline, 73' AGL/97' MSL.
Fence 123' from DER, 503' left of centerline, 6' AGL/30' MSL.
- Rwy 32R: Train 1 NM from DER, 1948' left of centerline, 23' AGL/102' MSL.
OL on hopper 2110' from DER, 601' right of centerline, 79' AGL/99' MSL.
OL on tank 1.1 NM from DER, 1426' right of centerline, 193' AGL/213' MSL.
Flagpole 655' from DER, 300' right of centerline, 35' AGL/43' MSL.
Sign 697' from DER, 248' right of centerline, 25' AGL/41' MSL.
Road/vehicle 561' from DER, on centerline, 15' AGL/49' MSL.
Building 633' from DER, 246' left of centerline, 20' AGL/35' MSL.
Tree 825' from DER, 635' left of centerline, 25' AGL/40' MSL.
TRMSN tower 6015' from DER, 1839' left of centerline, 145' AGL/173' MSL.

KANAN TWO DEPARTURE

SL-5320 (FAA)

CONCORD/BUCHANAN FIELD (CCR)
CONCORD, CALIFORNIA

TAKE-OFF MINIMUMS

Rwys 1L/1R, 14L/14R, 19L/19R, 32L/32R, standard with the following minimum climb gradients:

Rwys 1L/1R: Obstacle climb of 354' per NM to 1200

Rwy 14L: Obstacle climb of 400' per NM to 2200.

Rwy 14R: Obstacle climb of 380' per NM to 2200.

Rwys 19L/19R: Obstacle climb of 470' per NM to 3700.

Rwys 32L/32R: Obstacle climb of 360' per NM to 1200.

TAKE-OFF OBSTACLE NOTES

Rwy 1L: Fence 117' from DER, on centerline, 12' AGL/29' MSL.

Antenna on building 639' from DER, 382' right of centerline, 30' AGL/48' MSL.

Multiple trees and bushes beginning 675' from DER, 97' left of centerline, up to 60' AGL/83' MSL.

Light pole 1362' from DER, 390' right of centerline, 40' AGL/65' MSL

Camera 2962' from DER, 48' right of centerline, 75' AGL/96' MSL.

Multiple trees and bushes beginning 1261' from DER, 100' right of centerline, up to 60' AGL/78' MSL.

Flagpole 1520' from DER, 753' left of centerline, 40' AGL/71' MSL.

Sign 1996' from DER, 812' left of centerline, 45' AGL/78' MSL.

Pole 1907' from DER, 120' left of centerline, 50' AGL/72' MSL.

Rwy 1R: Tree 1927' from DER, 483' right of centerline, 65' AGL/131' MSL.

Tree 1948' from DER, 222' right of centerline, 65' AGL/104' MSL.

Pole 1552' from DER, 98' right of centerline, 25' AGL/67' MSL.

Pole 1865' from DER, 358' right of centerline, 45' AGL/96' MSL.

(NOTES CONTINUED ON THE FOLLOWING PAGE)

(NARRATIVE ON FOLLOWING PAGE)

NOTE: ADF Required

NOTE: Chart not to scale.

KANAN TWO DEPARTURE

SL-5320 (FAA)

CONCORD/BUCHANAN FIELD (CCR)

CONCORD, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb direct CC LOM. Thence....

TAKE-OFF RUNWAYS 14L/R: Climbing left turn direct CC LOM. Thence....

TAKE-OFF RUNWAYS 19L/R: Climbing left turn direct CC LOM. Thence....

TAKE-OFF RUNWAYS 32L/R: Climbing right turn direct CC LOM. Thence....

....via (transition) or (assigned route).

CROIT TRANSITION (KANAZA.CROIT): From over CC LOM via CC 257° bearing to CROIT INT.

LINDEN TRANSITION (KANAZA.LIN): From over CC LOM via CC 071° bearing and LIN R-251 to LIN VORTAC.

MANTECA TRANSITION (KANAZA.ECA): From over CC LOM via CC 071° bearing and ECA R-283 to ECA VORTAC.

SABLO TRANSITION (KANAZA.SABLO): From over CC LOM via CC 230° bearing to SABLO INT.

SACRAMENTO TRANSITION (KANAZA.SAC): From over CC LOM via CC 050° bearing and SAC R-195 to SAC VORTAC.

TAKE-OFF OBSTACLE NOTES (CONT)

Rwy 14L: Tree 1637' from DER, 328' right of centerline, 50' AGL/82' MSL.

Tree 1496' from DER, 474' right of centerline, 55' AGL/84' MSL.

Pole 1367' from DER, 275' right of centerline, 40' AGL/71' MSL.

Tree 1332' from DER, 61' left of centerline, 65' AGL/81' MSL.

Building 1071' from DER, 35' left of centerline, 30' AGL/58' MSL.

Building 5548' from DER, 1870' left of centerline, 110' AGL/176' MSL.

Obst light on building 5414' from DER, 100' left of centerline, 120' AGL/177' MSL.

Tree 942' from DER, 388' left of centerline, 50' AGL/102' MSL.

Tree 841' from DER, 177' left of centerline, 65' AGL/77' MSL.

Fence 225' from DER, 29' left of centerline, 12' AGL/33' MSL.

Rwy 14R: Obst light on airport beacon 1140' from DER, 315' right of centerline, 70' AGL/98' MSL.

Antenna 3254' from DER, 1096' right of centerline, 110' AGL/136' MSL.

Obst light on windsock 412' from DER, 451' right of centerline, 35' AGL/51' MSL.

Light 1281' from DER, 167' right of centerline, 45' AGL/69' MSL.

Tree 2745' from DER, 887' left of centerline, 65' AGL/102' MSL.

Building 3240' from DER, 1088' right of centerline, 55' AGL/129' MSL.

Rwy 19L: Tree 2257' from DER, 28' left of centerline, 70' AGL/97' MSL.

Tree 2132' from DER, 377' left of centerline, 70' AGL/90' MSL.

Tree 3112' from DER, 946' right of centerline, 70' AGL/106' MSL.

Tree 2544' from DER, 384' right of centerline, 60' AGL/87' MSL.

Rwy 19R: Fence 123' from DER, 503' left of centerline, 12' AGL/30' MSL.

Multiple trees beginning 604' from DER, 489' right of centerline, up to 70' AGL/106' MSL.

Light pole 1392' from DER, 749' right of centerline, 35' AGL/71' MSL.

Obst light 2451' from DER, 911' left of centerline, 77' AGL/97' MSL.

Multiple trees beginning 1276' from DER, 527' left of centerline, up to 70' AGL/108' MSL.

Rwy 32L: Multiple lighted stacks/towers beginning 6617' from DER, 1926' right of centerline, up to 250' AGL/378' MSL.

Hangar 259' from DER, 300' left of centerline, 25' AGL/37' MSL.

Transmission tower 6015' from DER, 1338' left of centerline, 145' AGL/173' MSL.

Road /vehicle 561' from DER, 504' right of centerline, 15' AGL/49' MSL.

Building 633' from DER, 254' right of centerline, 15' AGL/35' MSL.

Tree 825' from DER, 136' left of centerline, 25' AGL/40' MSL.

Rwy 32R: Multiple lighted stacks and buildings beginning 6617' from DER, 1426' right of centerline, up to 355' AGL/378' MSL.

Flagpole 665' from DER, 300' right of centerline, 35' AGL/43' MSL.

Building 633' from DER, 246' left of centerline, 20' AGL/35' MSL.

Tree 825' from DER, 635' left of centerline, 25' AGL/40' MSL.

Transmission tower 6015' from DER, 1839' left of centerline, 145' AGL/173' MSL.

Obst light on hopper 2110' from DER, 601' right of centerline, 79' AGL/99' MSL.

Sign 697' from DER, 248' right of centerline, 25' AGL/41' MSL.

Road/vehicle 561' from DER, on centerline, 15' AGL/49' MSL.

[illegible]

VOR/DME CCR	APP CRS	Rwy Idg	4410
117.0	171°	TDZE	20
Chan 117		Apt Elev	23

⚠

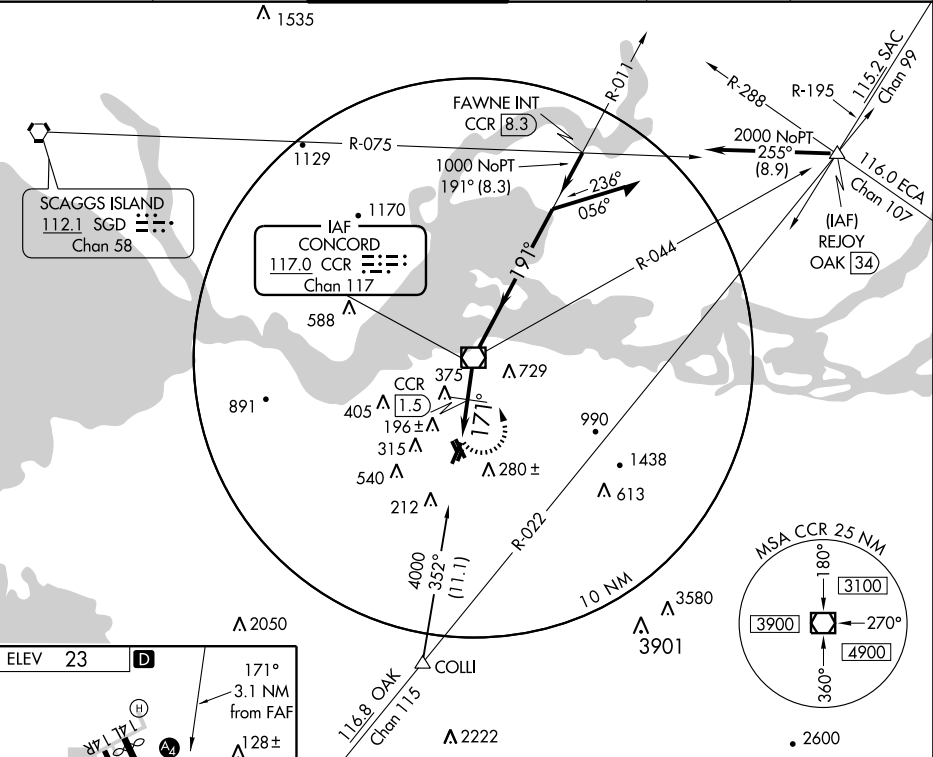
Circling NA west of Rwy 1L and 14R.
Inoperative table does not apply to Cat C.

MALS

=

MISSED APPROACH: Climbing left turn to 2500 direct CCR VOR/DME then via CCR R-044 to REJOY Int.

ATIS 124.7	TRAVIS APP CON 119.9 322.325	CONCORD TOWER★ 119.7 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 118.75	UNICOM 122.95
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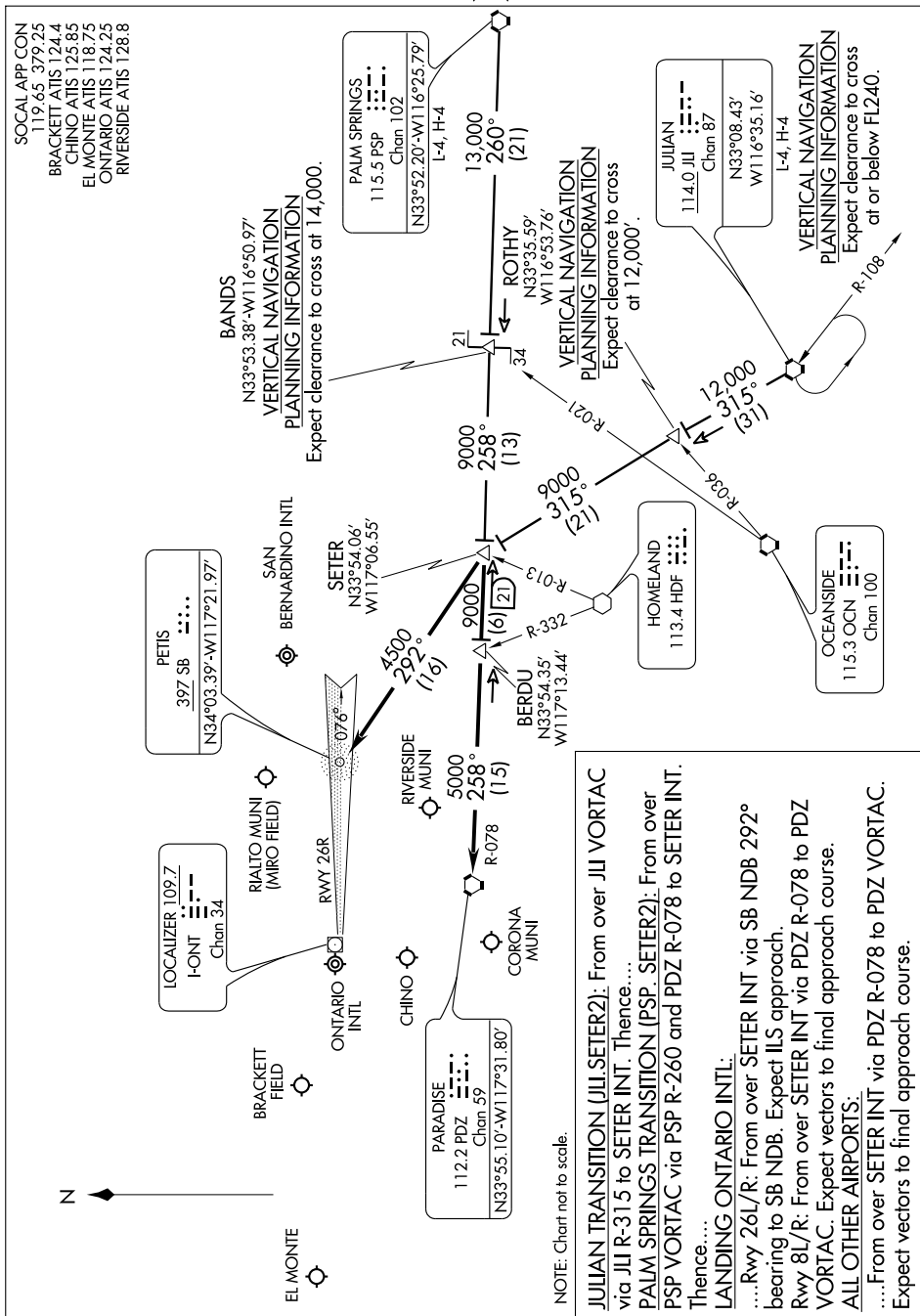


ELEV 23

SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA

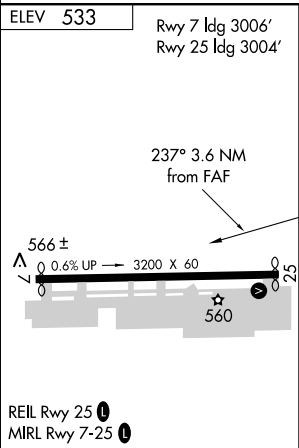
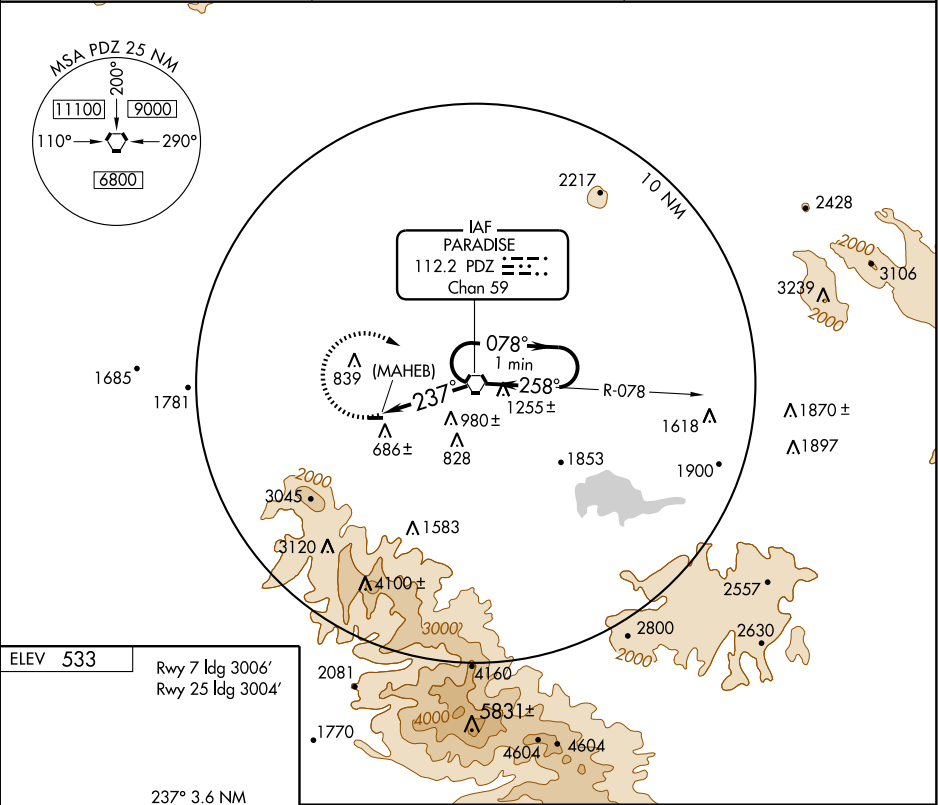


VOR or GPS-A
CORONA MUNI (AJO)

VORTAC PDZ 112.2 Chan 59	APP CRS 237°	Rwy Idg TDZE Apt Elev	N/A N/A 533
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When local altimeter setting not received, use Ontario Int'l altimeter setting and increase all MDA 80 feet.	MISSED APPROACH: Climbing right turn to 3100 direct PDZ VORTAC and hold, continue climb in hold to 3100.
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ASOS 132,175	SOCAL APP CON 135.4 377.125	UNICOM 122.7 (CTAF) 0
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FAF to MAP 3.6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1660-1¼ 1127 (1200-1¼)	1660-1½ 1127 (1200-1½)	NA	
Min:Sec	3:36	2:24	1:48	1:26	1:12					

ZIGGY FOUR ARRIVAL

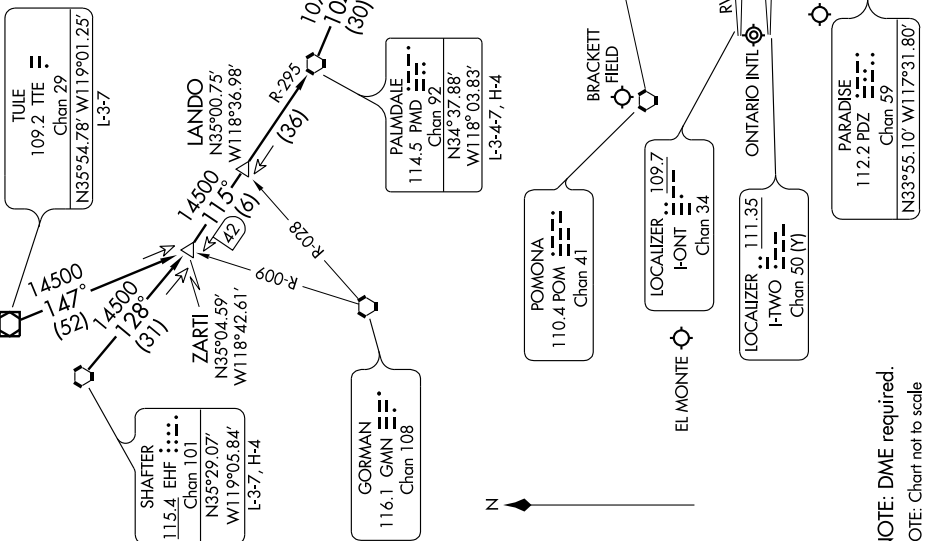
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

GPS RWY 35

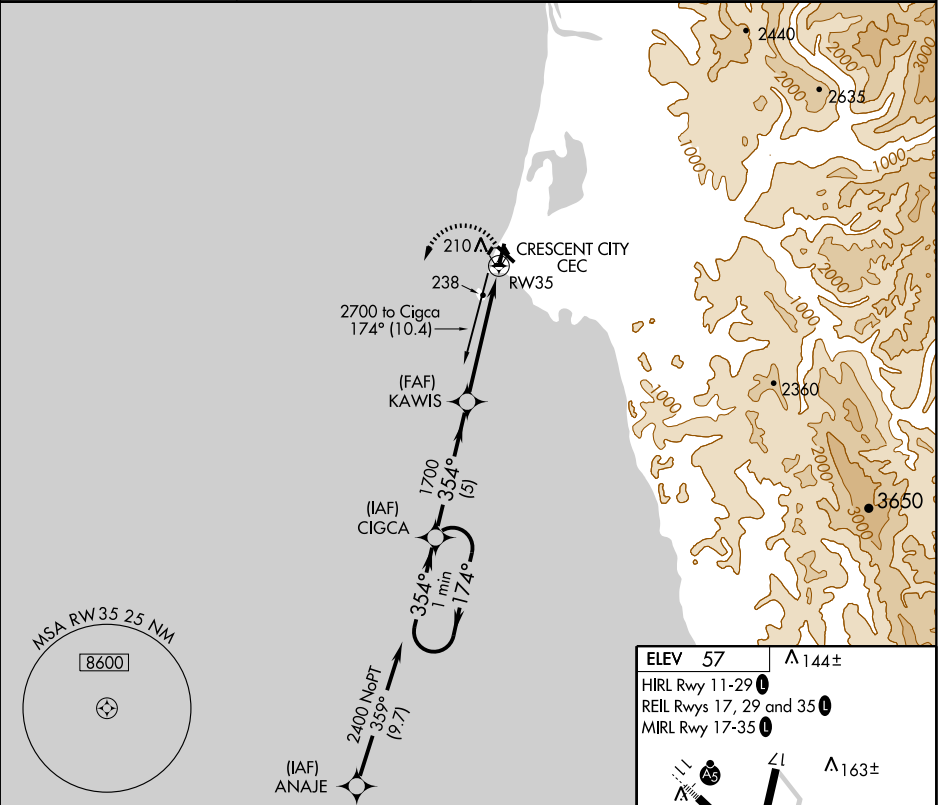
CRESCENT CITY/ JACK MC NAMARA FIELD (CEC)

APP CRS	Rwy Idg	5002
354°	TDZE	56
	Apt Elev	57

NA

MISSED APPROACH: Climbing left turn to 2400 direct CIGCA WP and hold.

ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF)
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One Minute Holding Pattern

2400

←174°

→354°

354°

1700

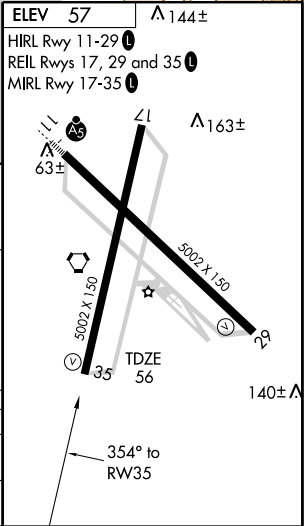
3.00' TCH 48

RW35

5 NM

5 NM

CATEGORY	A	B	C	D
S-35	500-1	444 (500-1)	500-1½ 444 (500-1½)	500-1½ 444 (500-1½)
CIRCLING	540-1	483 (500-1)	540-1½ 483 (500-1½)	640-2 583 (600-2)



LOC I-CEC	APP CRS	Rwy Idg	5002
108.7	114°	TDZE	57
		Apt Elev	57

DME from CEC VORTAC. Simultaneous reception of I-CEC and CEC DME required.
Inoperative table does not apply to S-LOC 11 Cat D.

MALSR

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 via CEC R-161, then direct CEC VORTAC and hold.

ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF)
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Remain within 10 NM

SLAMM CEC [5]

600

3000

CEC

CEC R-161

109.0

294°

114°

1700

1655

CEC [0.6]

GS 3.00°

TCH 55

4.4 NM

0.3

CATEGORY	A	B	C	D
S-ILS 11		257-½	200 (200-½)	
S-LOC 11		320-½	263 (300-½)	320-1 263 (300-1)
CIRCLING	540-1	483 (500-1)	540-1½ 483 (500-1½)	640-2 583 (600-2)

ELEV 57

Λ 144±

114° 4.7 NM from FAF

Λ 63±

TDZE 57

Λ 163±

5002 X 1.50

5002 X 1.50

35

140± Λ

HIRL Rwy 11-29

REIL Rwy 17, 29 and 35

MIRL Rwy 17-35

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 90310 W11A	APP CRS 114°	Rwy Idg 5002 TDZE 57 Apt Elev 57
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RNAV (GPS) RWY 11

CRESCENT CITY/ JACK MC NAMARA FIELD (CEC)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. When local altimeter setting not received, use Brookings altimeter setting and increase all DA 98 feet and all MDA 100 feet. Increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ¼ mile, LNAV Cat C and D ¼ mile, and Circling Cat C and D ¼ mile. VDP and Baro-VNAV NA when using Brookings altimeter setting. For inoperative MALSR, increase LNAV Cat D visibility to 1½ mile. For inoperative MALSR when using Brookings altimeter setting, increase LPV all Cats visibility to 1¼ mile.

MALSR



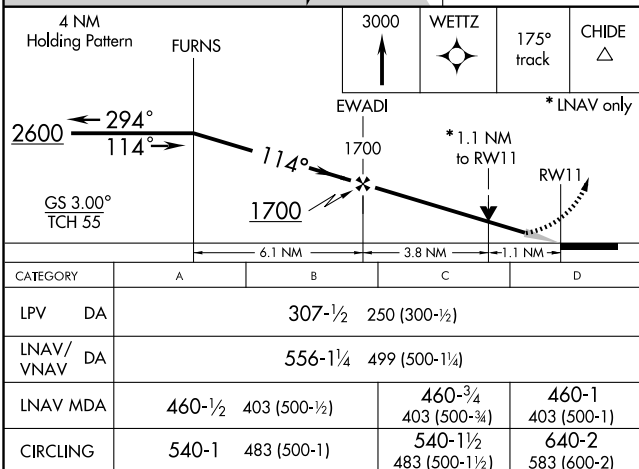
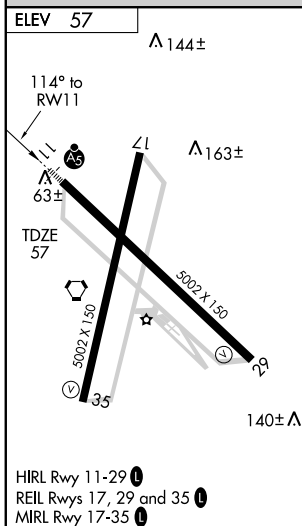
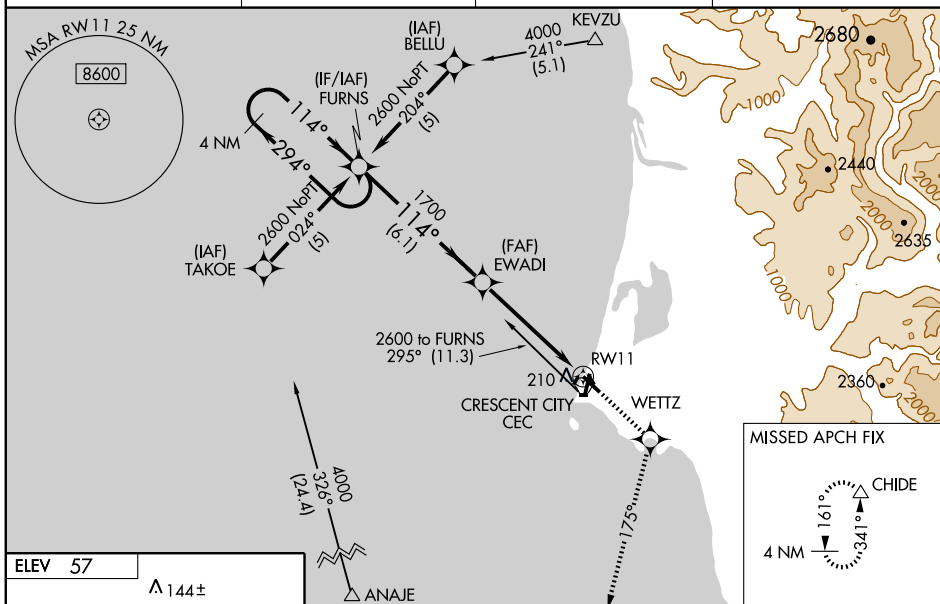
MISSED APPROACH: Climb to 3000 direct WETZ and via 175° track to CHIDE and hold, continue climb-in-hold to 3000.

ASOS
119.925

SEATTLE CENTER
124.85 306.3

OAKLAND RADIO
122.3

UNICOM
122.8 (CTAF) **L**



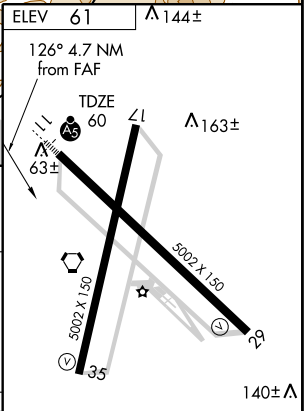
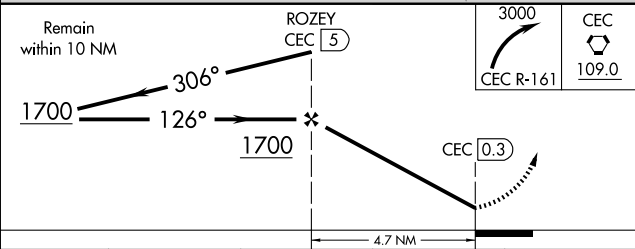
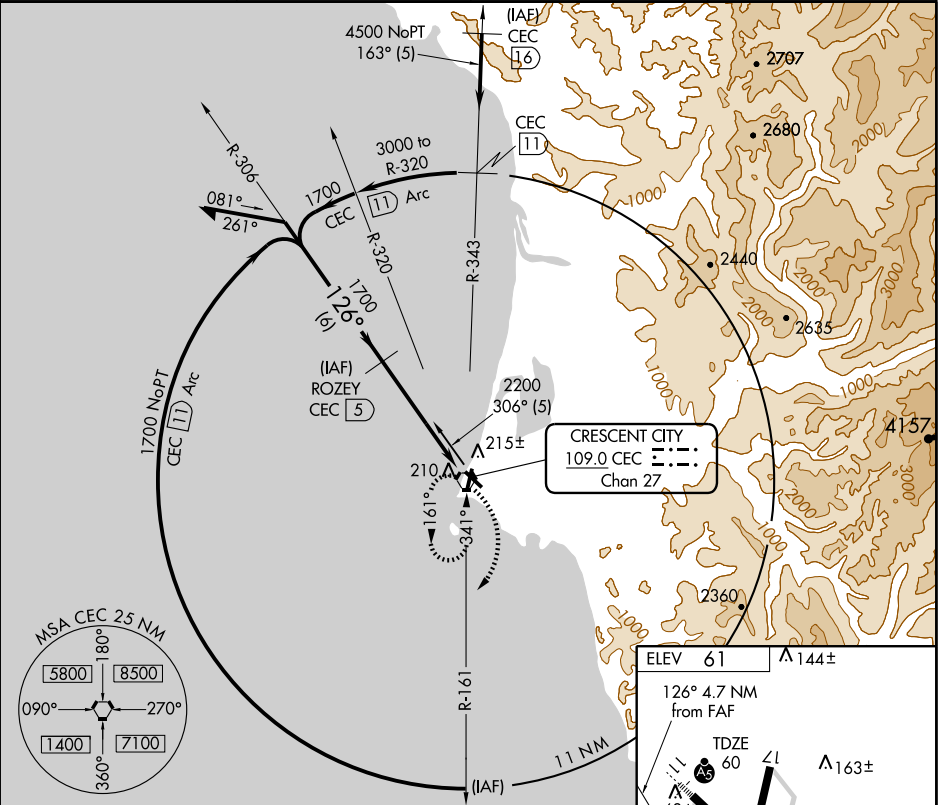
VORTAC CEC	APP CRS	Rwy Idg	5002
109.0	126°	TDZE	60
Chan 27		Apt Elev	61

VOR/DME RWY 11

CRESCENT CITY/JACK MC NAMARA FIELD (CEC)

Inoperative table does not apply to Cat D.	MALSR	MISSED APPROACH: Climbing right turn to 3000 via CEC R-161 then direct CEC VORTAC and hold.
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ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-11	480-1/2 420 (500-1/2)		480-3/4 420 (500-3/4)	480-1 1/4 420 (500-1 1/4)
CIRCLING	540-1 479 (500-1)		540-1 1/2 479 (500-1 1/2)	640-2 579 (600-2)

HIRL Rwy 11-29 0
REIL Rwy 17, 29 and 35 0
MIRL Rwy 17-35 0

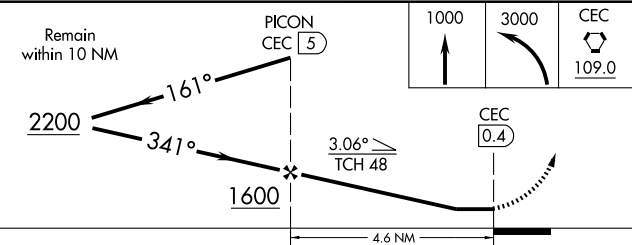
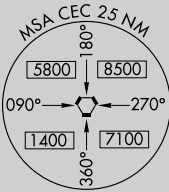
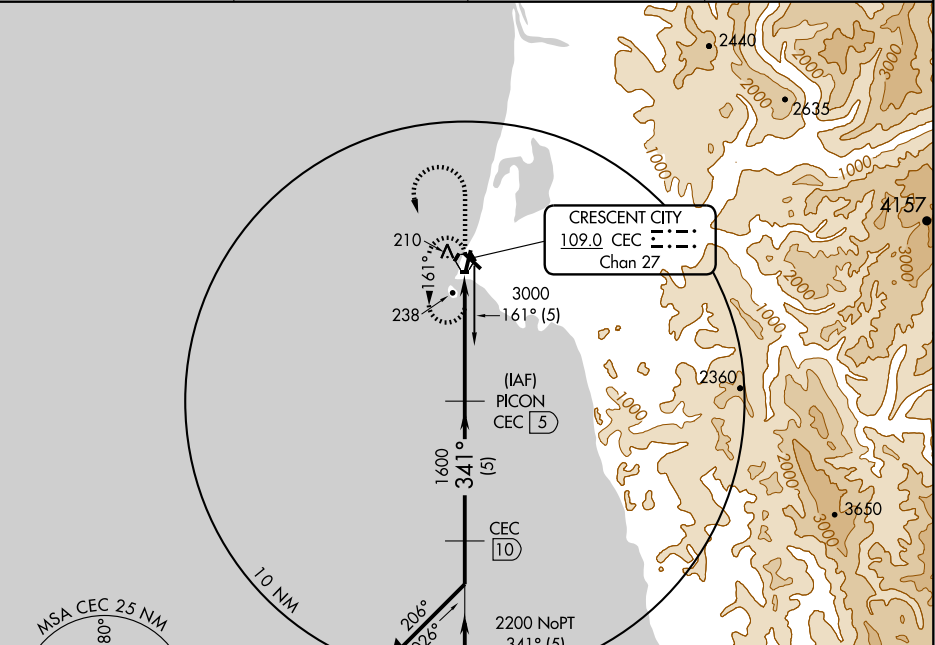
VORTAC CEC	APP CRS	Rwy Idg	5002
109.0	341°	TDZE	56
Chan 27		Apt Elev	57

VOR/DME RWY 35

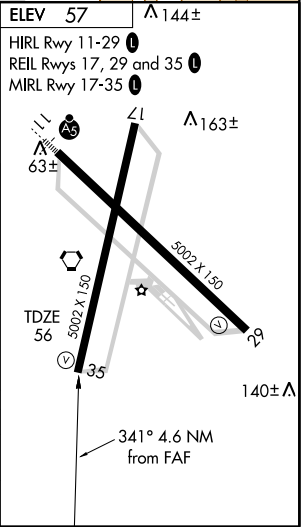
CRESCENT CITY/JACK MC NAMARA FIELD (CEC)

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct CEC VORTAC and hold.	
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ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-35	500-1 444 (500-1)		500-1¼ 444 (500-1¼)	500-1½ 444 (500-1½)
CIRCLING	540-1 483 (500-1)		540-1½ 483 (500-1½)	640-2 583 (600-2)



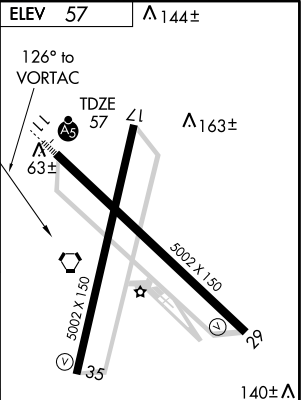
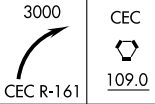
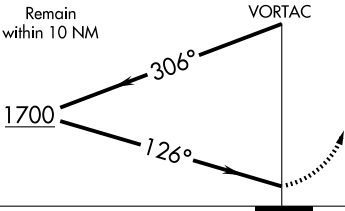
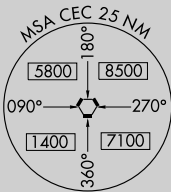
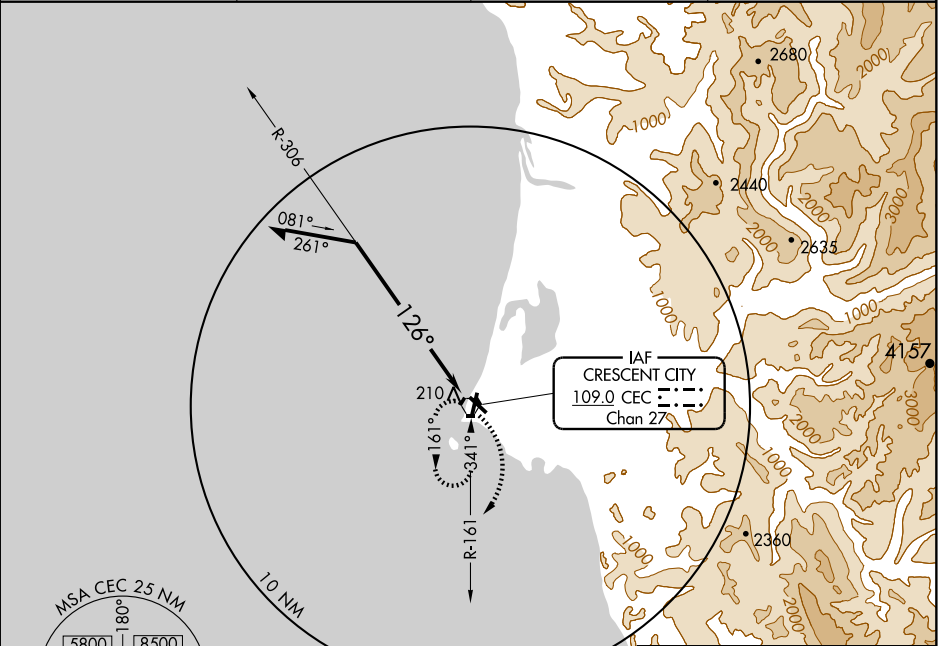
VORTAC CEC	APP CRS	Rwy Idg	5002
109.0	126°	TDZE	57
Chan 27		Apt Elev	57

VOR RWY 11

CRESCENT CITY/ JACK MC NAMARA FIELD (CEC)

Inoperative table does not apply to Cat D.	MALSR	MISSED APPROACH: Climbing right turn to 3000 via CEC R-161 then direct CEC VORTAC and hold.
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ASOS 119.925	SEATTLE CENTER 124.85 306.3	OAKLAND RADIO 122.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-11	520-1/2 463 (500-1/2)		520-3/4 463 (500-1/2)	520-1 1/2 463 (500-1 1/2)
CIRCLING	540-1 483 (500-1)		540-1 1/2 483 (500-1 1/2)	640-2 583 (600-2)

HIRL Rwy 11-29 0
MIRL Rwy 17-35 0
REIL Rws 17, 29 and 35 0

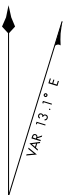
AIRPORT DIAGRAM

AL-104 (FAA)

DAGGETT/BARSTOW-DAGGETT (DAG)
DAGGETT, CALIFORNIA

ASOS
132.175
CTAF/UNICOM
123.0

34°52'N



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

2055 Δ

FIELD
ELEV
1930

FAA
FSS
BLDG

ELEV
1923

RUN UP
PAD

200
X
200

ELEV
1909

0.3% UP
5123 X 100

037.4°

0.3% UP

076.9°

6402 X 150

256.9°

ELEV
1909

34°51'N

RWY 4-22
S30, D105, ST133, DT190
RWY 8-26
S30, D170, ST175, DT320

SW-3. 14 JAN 2010 to 11 FEB 2010

116°48'W

116°47'W

APP CRS 216°	Rwy Idg TDZE 1918 Apt Elev 1930
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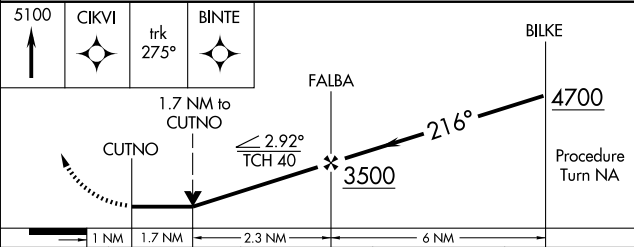
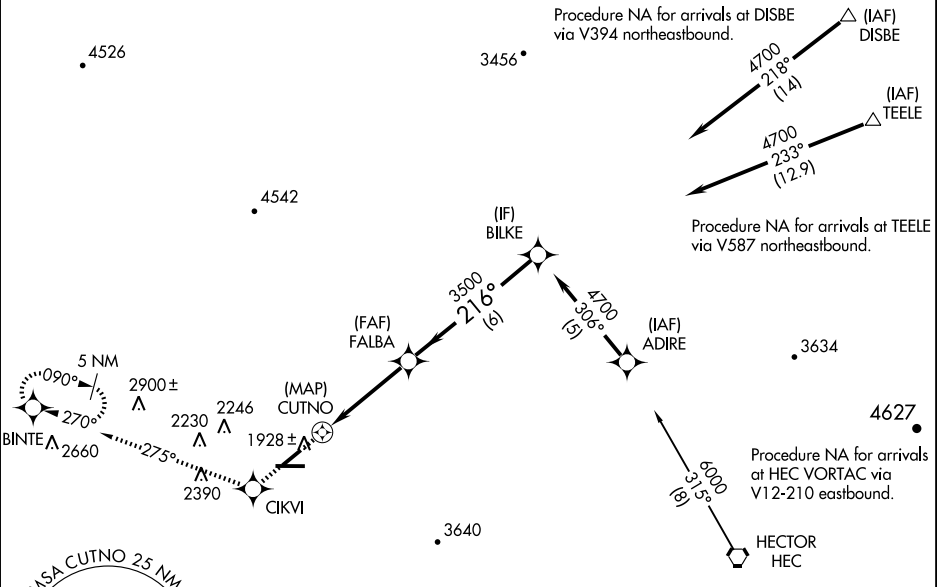
RNAV (GPS) RWY 22

DAGGETT/BARSTOW-DAGGETT (DAG)

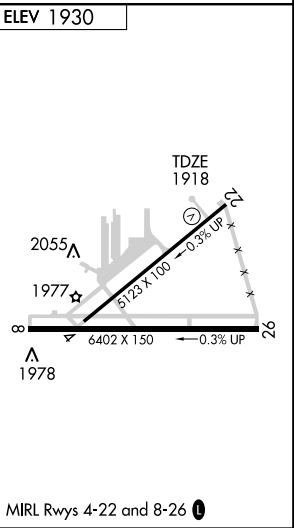
⚠ Circling NA for Cat D south of Rwy 8-26. DME/DME RNP- 0.3 NA.
⚠ Visibility reduction by helicopters NA.
When local altimeter setting not received, use Victorville altimeter setting and increase all MDAs 220 feet. Increase LNAV and Circling Cat B/C visibility ¼ mile.
VDP NA when using Victorville altimeter setting.

MISSED APPROACH: Climb to 5100 direct CIKVI and via track 275° to BINTE and hold, continue climb-in-hold to 5100.

ASOS 132.175	LOS ANGELES CENTER 132.5 284.7	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	2800-1¼ 882 (900-1¼)		2800-2¾ 882 (900-2¾) 2860-2¾ 2860-3	2800-3 882 (900-3)
CIRCLING	2800-1¼ 870 (900-1¼)		930 (1000-2¾)	930 (1000-3)



WAAS CH 72813 W26A	APP CRS 255°	Rwy Idg TDZE Apt Elev	6402 1918 1930
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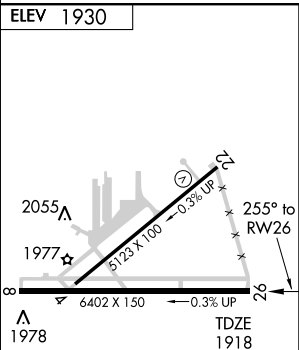
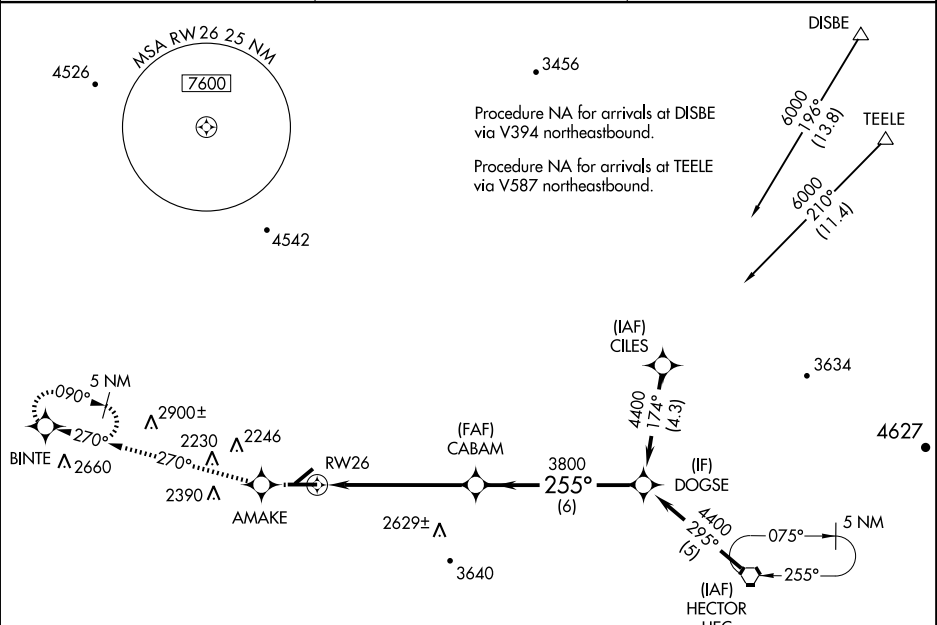
RNAV (GPS) RWY 26

DAGGETT/ BARSTOW-DAGGETT (DAG)

⚠ Circling NA for Cat D south of Rwy 8-26. DME/DME RNP- 0.3 NA.
⚠ Visibility reduction by helicopters NA. VDP NA when using Victorville altimeter setting.
When local altimeter setting not received, use Victorville altimeter setting and increase all DAs 211 feet and all MDAs 220 feet. Increase LPV all Cats visibility ¼ mile, LNAV Cat A/B ¼ mile, Cat C ¾ mile, Cat D ½ mile, Circling Cats A/B/C ¼ mile.

MISSED APPROACH: Climb to 5100 direct AMAKE and via track 270° to BINTE and hold, continue climb-in-hold to 5100.

ASOS 132.175	LOS ANGELES CENTER 132.5 284.7	UNICOM 123.0 (CTAF)
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* LNAV only				
CATEGORY	A	B	C	D
LPV DA	2217-1 299 (300-1)			
LNAV MDA	2700-1 782 (800-1)	2700-1¼ 782 (800-1¼)	2700-2¼ 782 (800-2¼)	2700-2½ 782 (800-2½)
CIRCLING	2700-1 770 (800-1)	2780-1¼ 850 (900-1¼)	2860-2¾ 930 (1000-2¾)	2860-3 930 (1000-3)

VORTAC DAG	APP CRS	Rwy Idg	5123
113.2	224°	TDZE	1918
Chan 79		Apt Elev	1930

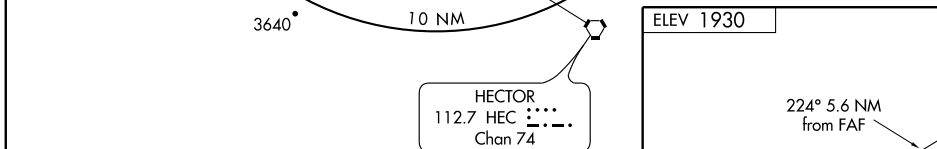
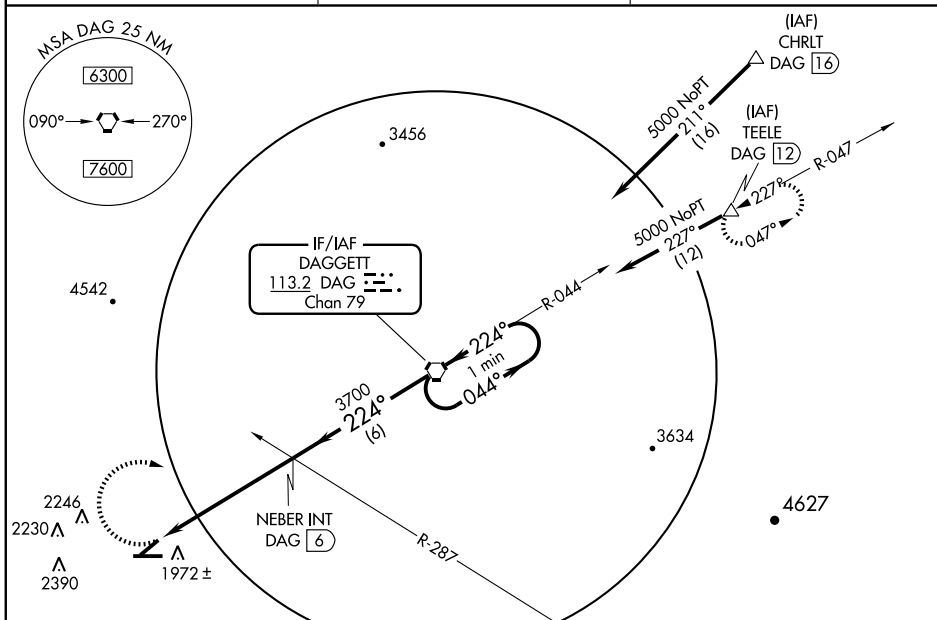
VOR or TACAN RWY 22

DAGGETT/BARSTOW-DAGGETT (DAG)

NA Circling NA for Cat D south of Rwy 8-26.
 Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Victorville altimeter setting and increase all MDAs 220 feet.

MISSED APPROACH: Climbing right turn to 5000 via heading 090° and DAG VORTAC R-224 to DAG VORTAC and hold, continue climb-in-hold to 7500 (TACAN aircraft continue via DAG VORTAC R-047 to TEELE/12 DME and hold, continue climb-in-hold to 7500, hold NE, LT, 227° inbound).

ASOS 132.175	LOS ANGELES CENTER 132.5 284.7	UNICOM 123.0 (CTAF) 0
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5000 hdg 090°	DAG R-224	DAG 113.2	VORTAC One Minute Holding Pattern			
NEBER INT DAG 6			DAG 11.7			
DAG 11.7			224° 5.6 NM from FAF			
224° 5.6 NM from FAF			TDZE 1918			
224° 5.6 NM from FAF			MIRL Rwy 4-22 and 8-26 0			
224° 5.6 NM from FAF			FAF to MAP 5.6 NM			
224° 5.6 NM from FAF			Knots 60 90 120 150 180			
224° 5.6 NM from FAF			Min:Sec 5:36 3:44 2:48 2:14 1:52			

APP CRS 167°	Rwy Idg 3176 TDZE 64 Apt Elev 69
------------------------	---

RNAV (GPS) RWY 17

DAVIS/UNIVERSITY (EDU)



DME/DME RNP- 0.3 NA.



Visibility reduction by helicopters NA.

When local altimeter setting not received, use Travis AFB altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climbing right turn to 2000 direct CODRU and hold.

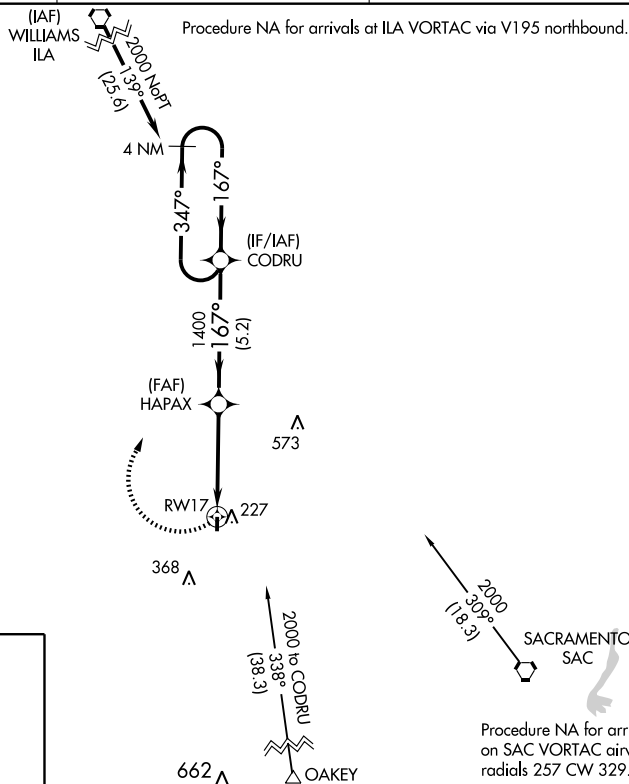
AWOS-3

119.025

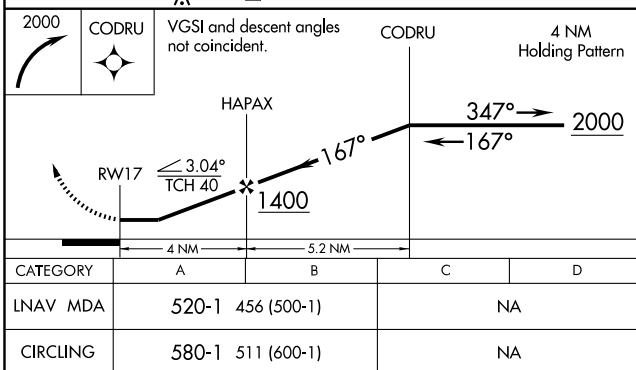
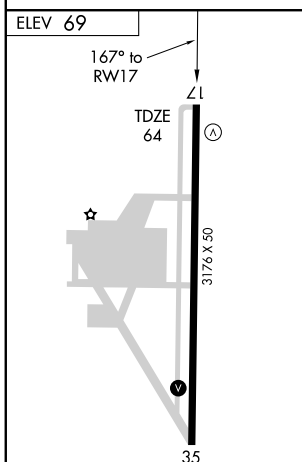
TRAVIS APP CON

126.6 291.0

UNICOM

123.075 (CTAF) **L**

Procedure NA for arrivals
on SAC VORTAC airway
radials 257 CW 329.



SW-2. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	6000
149°	TDZE	99
	Apt Elev	100

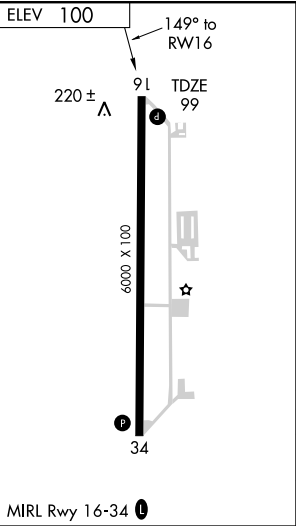
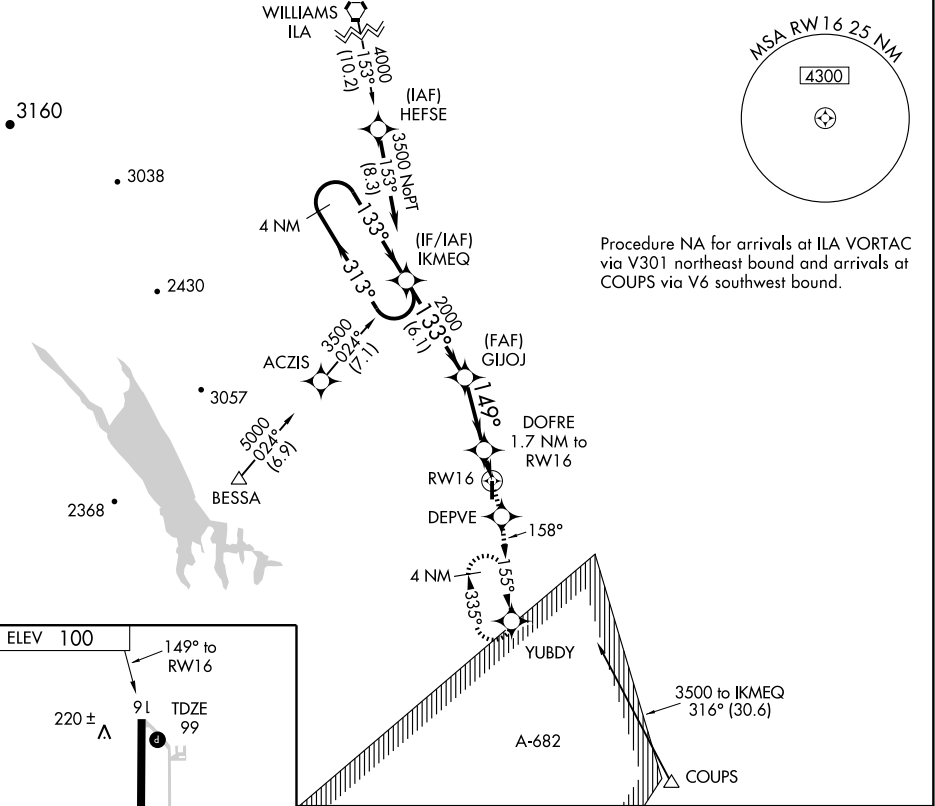
RNAV (GPS) RWY 16

DAVIS/WOODLAND/WINTERS/ YOLO COUNTY (DWA)

⚠ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
⚠ When local altimeter setting not received, use Travis AFB altimeter setting and increase all MDA 60 feet, and increase LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3300 direct DEPVE and via track 158° to YUBDY and hold, continue climb-in-hold to 3300.

AWOS-3 125.775	TRAVIS APP CON 126.6 291.0	UNICOM 123.0 (CTAF) 0
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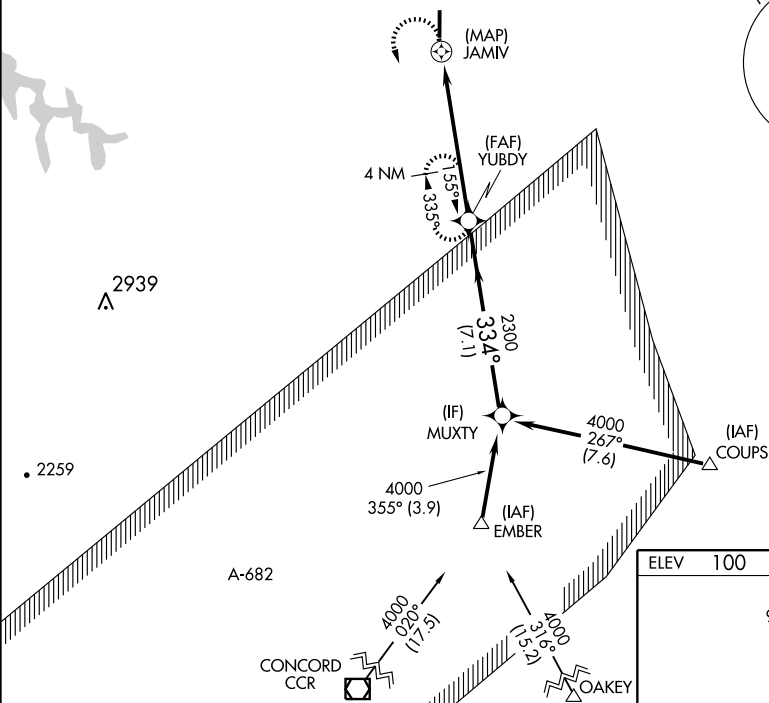
4 NM Holding Pattern		IKMEQ	3300	DEPVE	YUBDY
3500		313°	133°	133°	149°
2000		6.1 NM	4.1 NM	1.7 NM	
CATEGORY	A	B	C	D	
LNAV MDA	540-1	441 (500-1)	540-1¼ 441 (500-1¼)	540-1½ 441 (500-1½)	
CIRCLING	580-1	480 (500-1)	580-1½ 480 (500-1½)	660-2 560 (600-2)	

DAVIS/WOODLAND/WINTERS/ YOLO COUNTY (DWA)

MISSED APPROACH: Climbing left turn to 3300 direct YUBDY and hold, continue climb-in-hold to 3300.

UNICOM
123.0 (CTAF) **L**

MSA JAMIV 25 NM
4300

MIRL Rwy 16-34 **L**

GPS RWY 32

DELANO MUNI (DLO)

APP CRS	Rwy Idg	5651
320°	TDZE	313
	Apt Elev	314

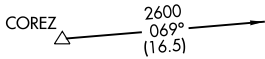
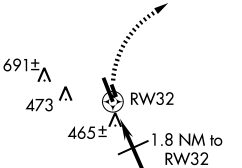
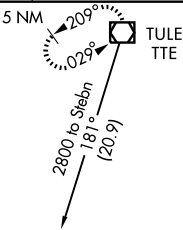
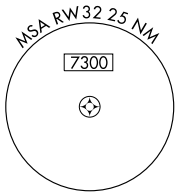
NA Circling not authorized Southwest of Rwy 14-32.

MISSED APPROACH: Climbing right turn to 3000 direct TTE VOR/DME and hold.

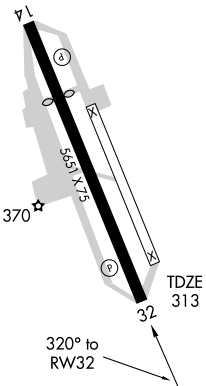
AWOS-3
119.55

BAKERSFIELD APP CON ★
118.9

UNICOM
122.8 (CTAF) 0

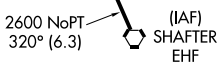


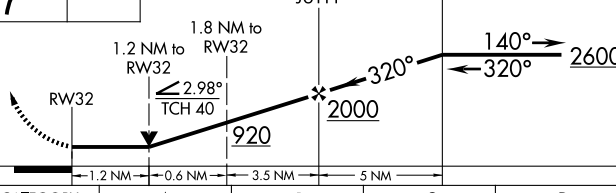
ELEV 314 Rwy 14 Idg 4011'



MIRL Rwy 14-32 0
REIL Rws 14 and 32

NoPT for arrivals EHF VORTAC
airway radials 123 CW 196



					
					
CATEGORY	A	B	C	D	
S-32	720-1	407 (500-1)	720-1¼	407 (500-1¼)	
CIRCLING	760-1 446 (500-1)	780-1 466 (500-1)	780-1½ 466 (500-1½)	880-2 566 (600-2)	

VORTAC EHF	APP CRS	Rwy Idg	5651
115.4	322°	TDZE	313
Chan 101		Apt Elev	314

VOR RWY 32
DELANO MUNI (DLO)

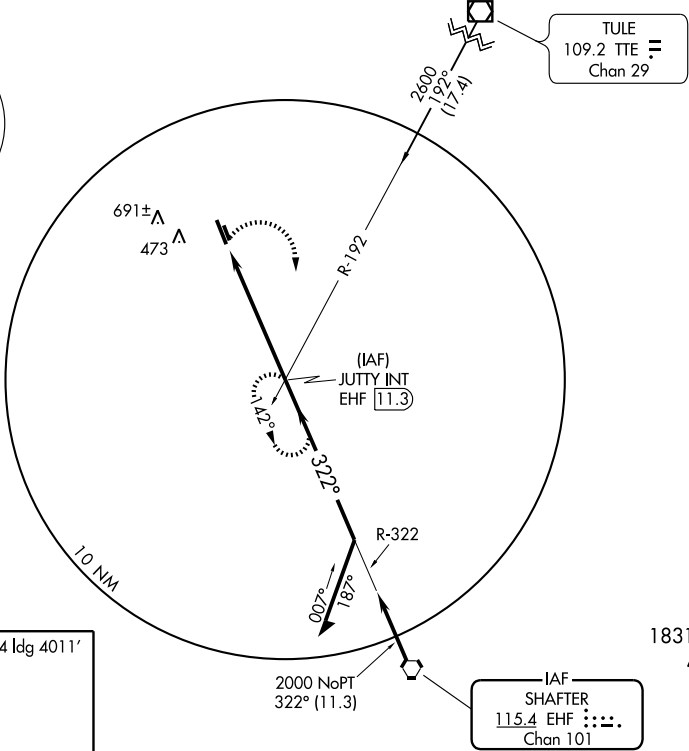
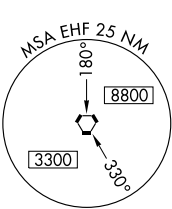
⚠ NA Circling not authorized Southwest of Rwy 14-32.

MISSED APPROACH: Climbing right turn to 2000 via EHF R-322 to JUTTY Int and hold.

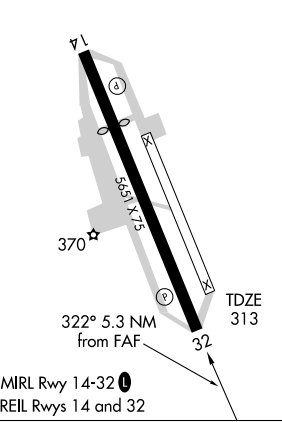
AWOS-3
119.55

BAKERSFIELD APP CON ★
118.9

UNICOM
122.8 (CTAF) 0



ELEV 314 Rwy 14 Idg 4011'

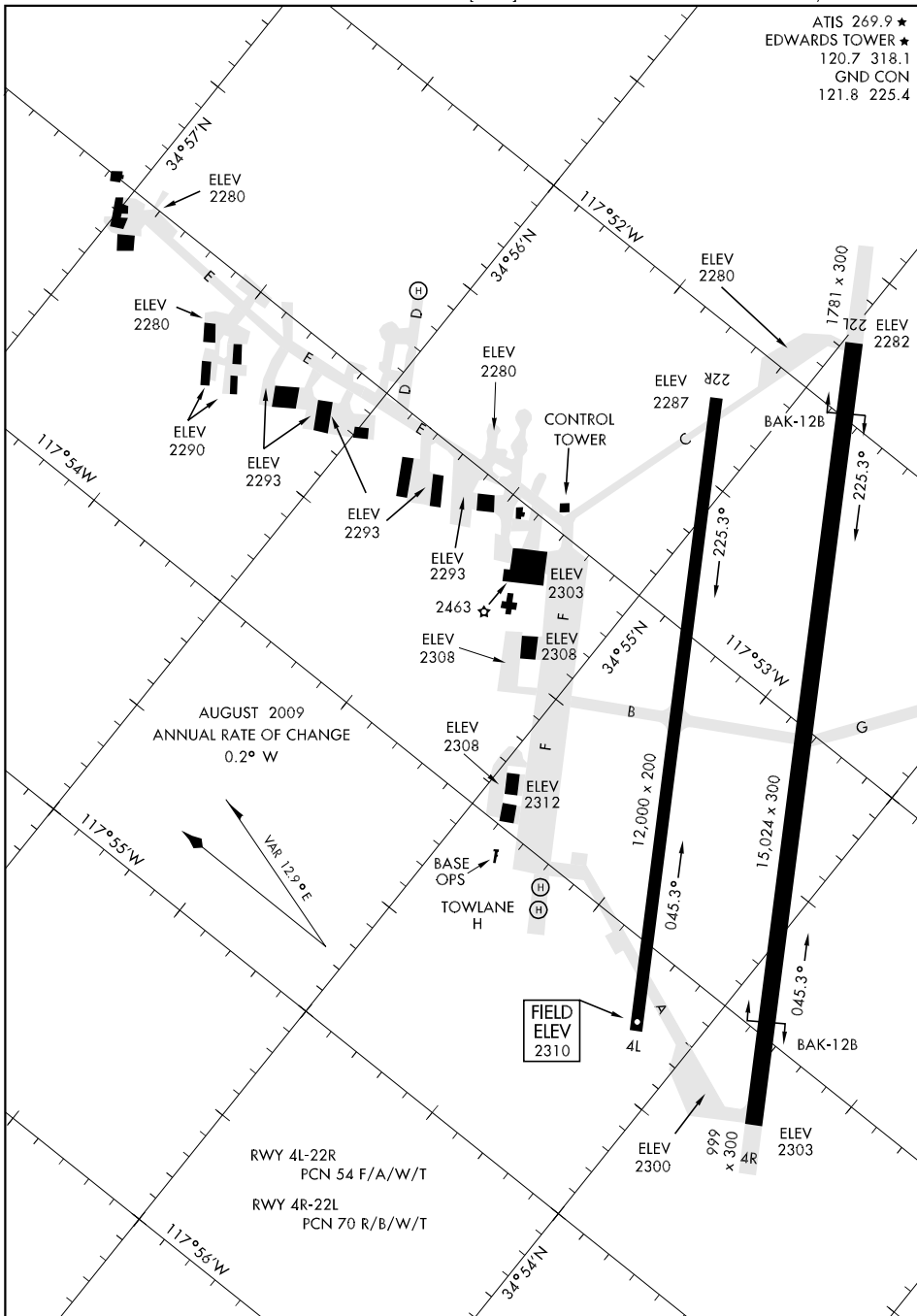


MIRL Rwy 14-32
REIL Rws 14 and 32

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

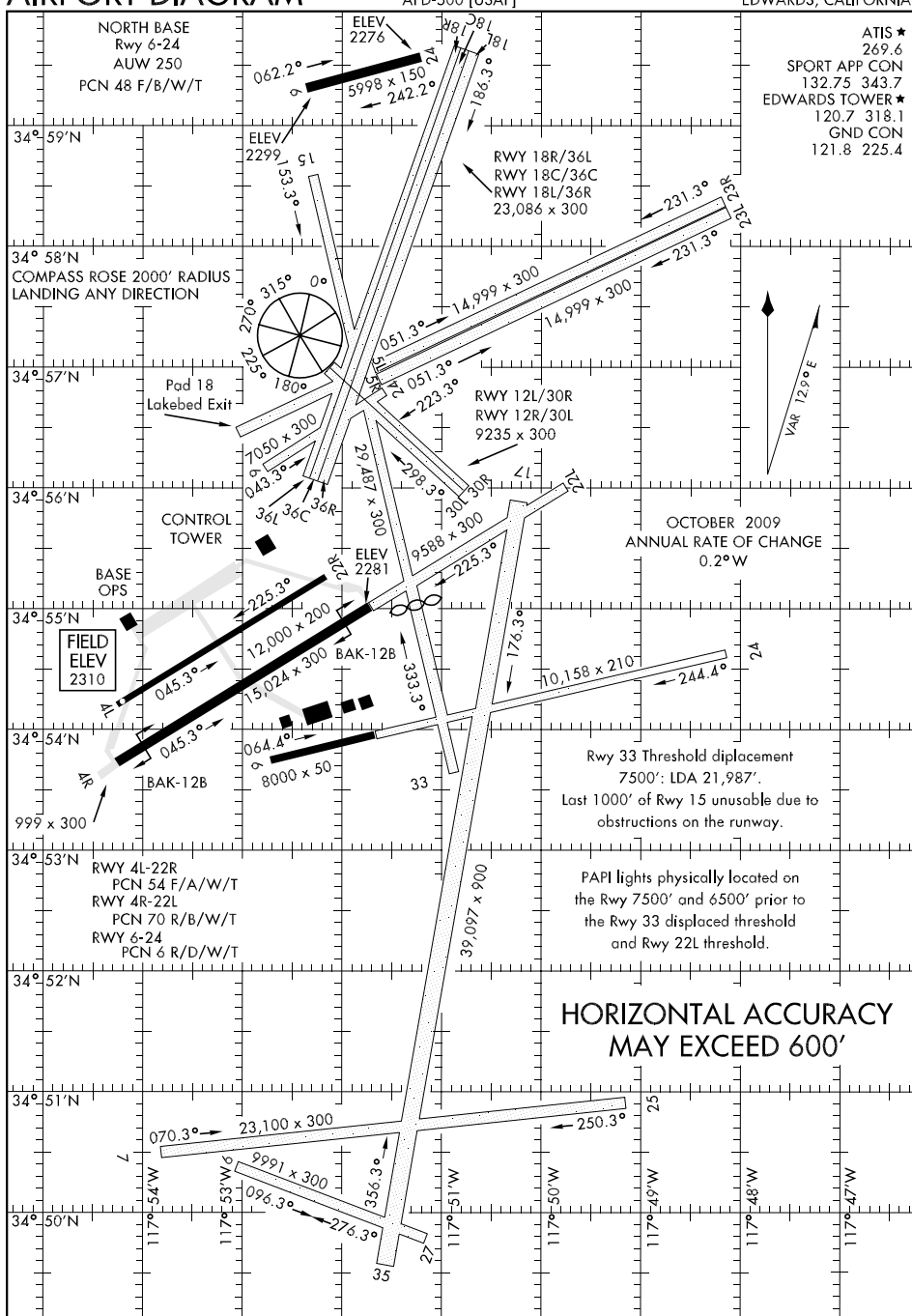
CATEGORY	A		B		C	D
	860-1 547 (600-1)		860-1 547 (600-1)		860-1½ 547 (600-1½)	860-1¾ 547 (600-1¾)
CIRCLING	860-1 546 (600-1)		860-1 546 (600-1)		860-1½ 546 (600-1½)	880-2 566 (600-2)

SW-3, 14 JAN 2010 to 11 FEB 2010



NORTH BASE
Rwy 6-24
AUW 250
PCN 48 F/B/W/T

ATIS ★		
269.6		
SPORT APP CON	132.75	343.7
EDWARDS TOWER ★		
120.7	318.1	
GND CON	121.8	225.4



AIRPORT DIAGRAM

LOC I-EDW <u>110.1</u>	APCH CRS 224°	Rwy Idg 15,024 TDZE 2285 Arpt Elev 2310
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JAL-500 [USAF]

EDWARDS AFB (KEDW)

T * Circling not authorized NW of Rwy 4R-22L.

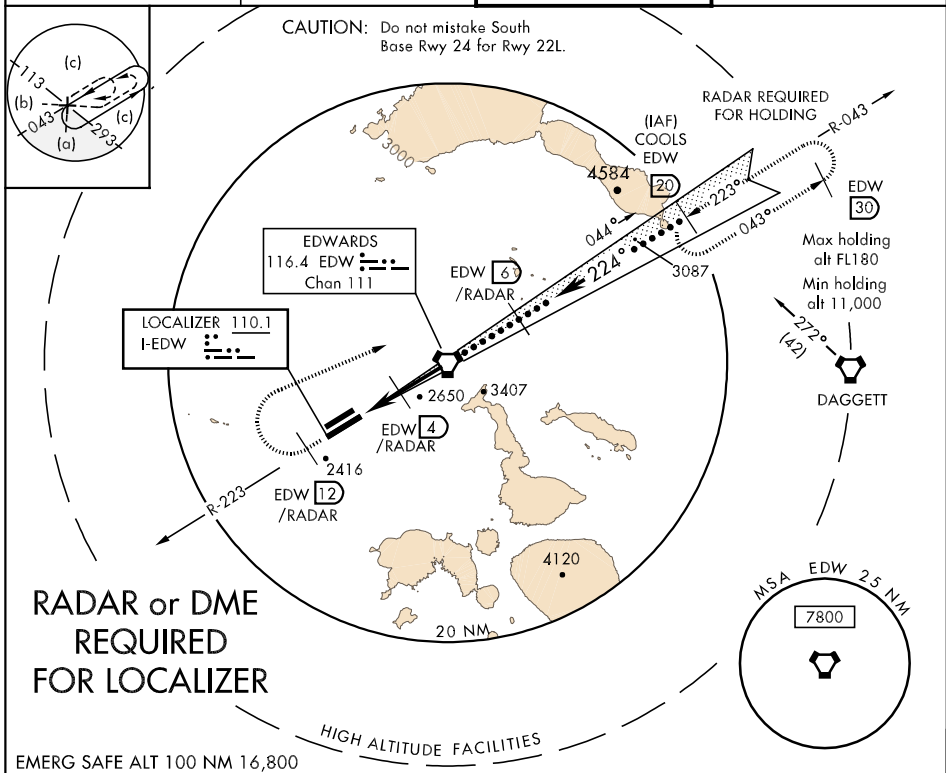
MISSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/20 DME (COOLS) and hold. Maintain 11,000.

ATIS ★
269.9

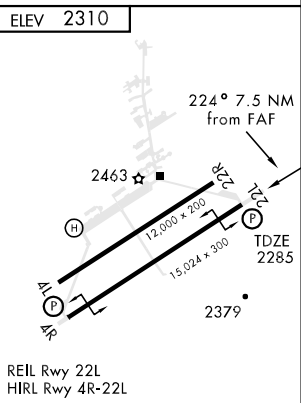
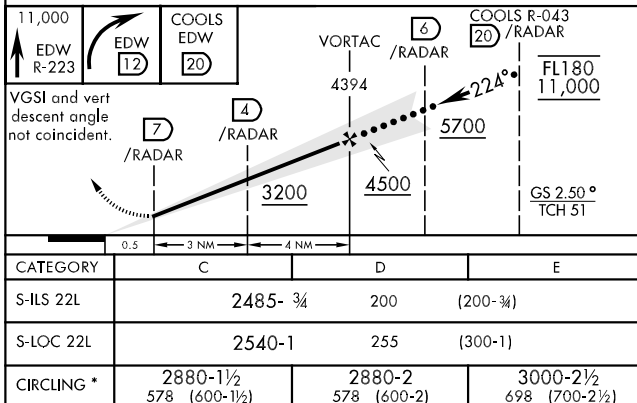
SPORT APP CON
132.75 343.7

EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



EMERG SAFE ALT 100 NM 16,800



VORTAC EDW
116.4
Chan 111

APCH CRS
043°

Rwy Idg 15,024
TDZE 2298
Arpt Elev 2310

JAL-500 [USAF]

EDWARDS AFB (KEDW)



* Circling not authorized NW of Rwy 4R-22L.

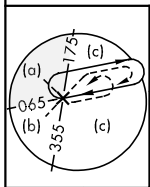
MISSED APPROACH: Track EDW VORTAC R-223 to EDW.
Intercept EDW R-065 to 20 DME and hold. Maintain 15,000.

ATIS ★
269.9

SPORT APP CON
132.75 343.7

EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



EDWARDS
116.4 EDW
Chan 111

CAUTION: Do not mistake
South Base Rwy 6
for Rwy 4R.

RADAR REQUIRED
FOR HOLDING

Max holding
alt FL180
Min holding
alt 15,000

EDW
30

065° R-065

245°

(IAF)
ENILE
EDW 20
FL180
15,000

262°
136°

DAGGETT

EDW 10
/RADAR

243°

2610

2401

EDW 21
/RADAR

R-223

EDW 21
/RADAR

043°

MUDTY
EDW 15
/RADAR

2472

2650

3407

243°

EDW 10
/RADAR

15,000

R-243 10
/RADAR

243°

5000

043°

3900

3200

5 NM

EMERG SAFE ALT 100 NM 16,800

HIGH ALTITUDE FACILITIES

MSA EDW 2.5 NM

7800

VGSI and vert descent angle not coincident.

R-243 21
/RADAR

243°

5000

043°

3900

3200

5 NM

3.61°
TCH 47

3200

5 NM

R-243 10
/RADAR

243°

15,000

EDW

R-223

15,000

EDW

2310

EDW

2310

EDW

ELEV 2310

043°
5.0 NM
from FAF

2463

12,000 x 200

15,024 x 300

2379

TDZE
2298

REIL Rwy 22L

HIRL Rwy 4R-22L

HI-VOR/DME or TACAN RWY 22L

VORTAC EDW 116.4 Chan 111	APCH CRS 223°	Rwy Idg 15,024 TDZE 2285 Arpt Elev 2310
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JAL-500 [USAF]

EDWARDS AFB (KEDW)

T * Circling not authorized NW of Rwy 4R-22L.

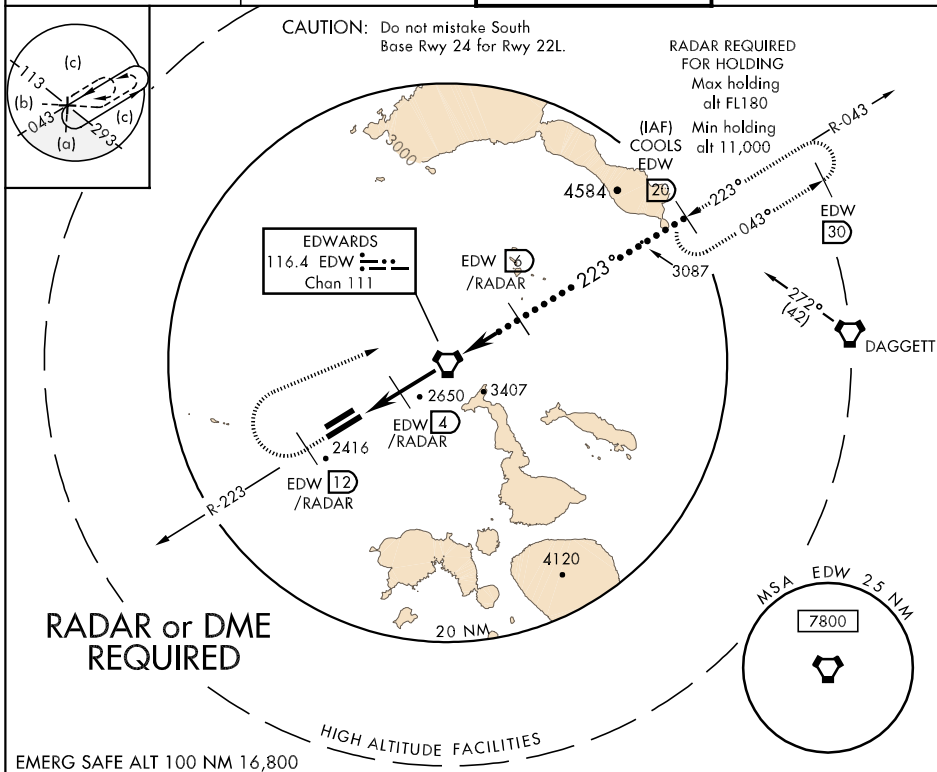
MISSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/20 DME (COOLS) and hold. Maintain 11,000.

ATIS ★
269.9

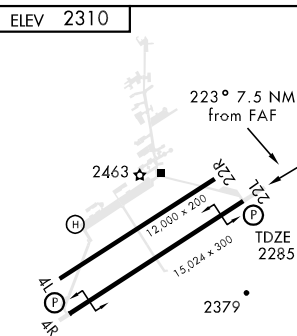
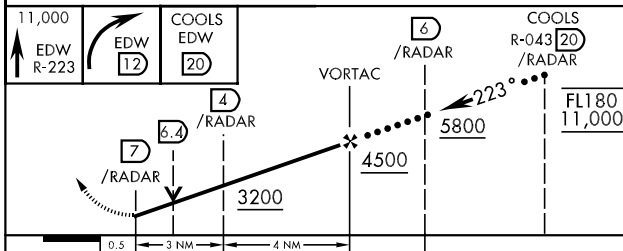
SPORT APP CON
132.75 343.7

EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



EMERG SAFE ALT 100 NM 16,800



CATEGORY	C	D	E
S-22L	2640-1 355 (400-1)	2640-1¼	355 (400-1¼)
CIRCLING *	2880-1½ 578 (600-1½)	2880-2 578 (600-2)	3000-2½ 698 (700-2½)

REIL Rwy 22L
HIRL Rwy 4R-22L

LOC I-EDW 110.1	APCH CRS 224°	Rwy Idg TDZE Arpt Elev 15,024 2285 2310
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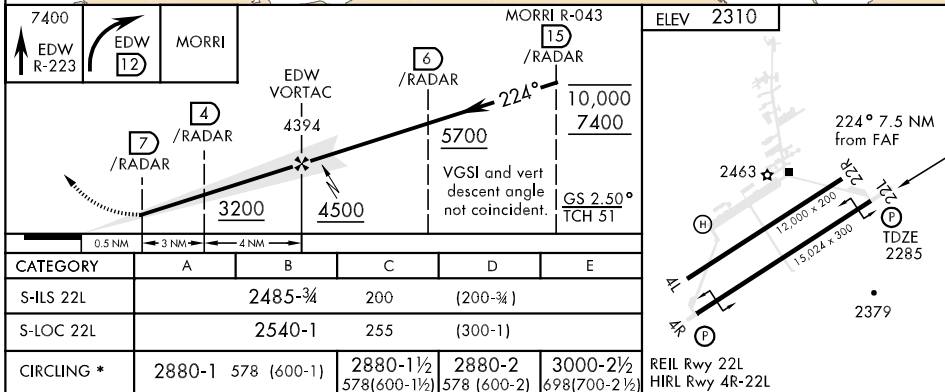
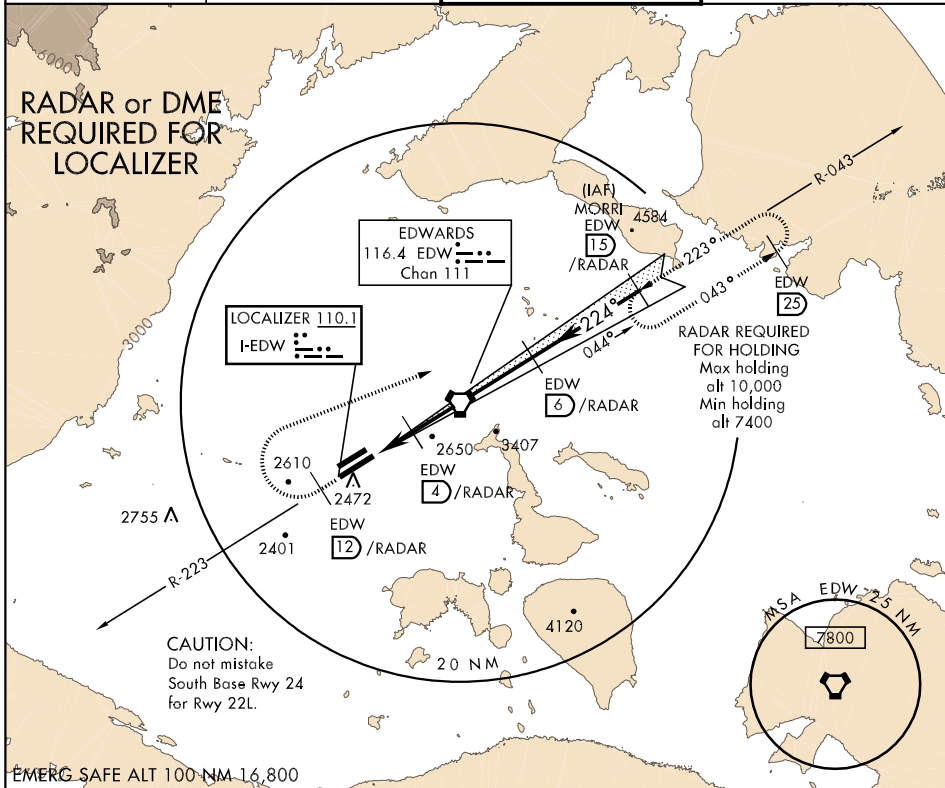
AL-500 [USAF]

EDWARDS AFB (KEDW)

MISSSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/15 DME and hold. Maintain 7400.

* Circling not authorized NW of Rwy 4R-22L.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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APCH CRS **044°** Rwy Idg **15,024**
TDZE **2298**
Arpt Elev **2310**

AL-500 [USAF]

EDWARDS AFB (KEDW)



* Circling not authorized NW of Rwy 4R-22L.

DME/DME RNP-0.3 NA

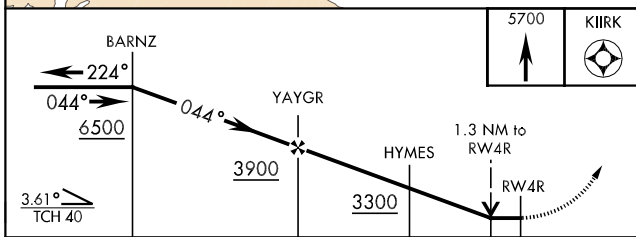
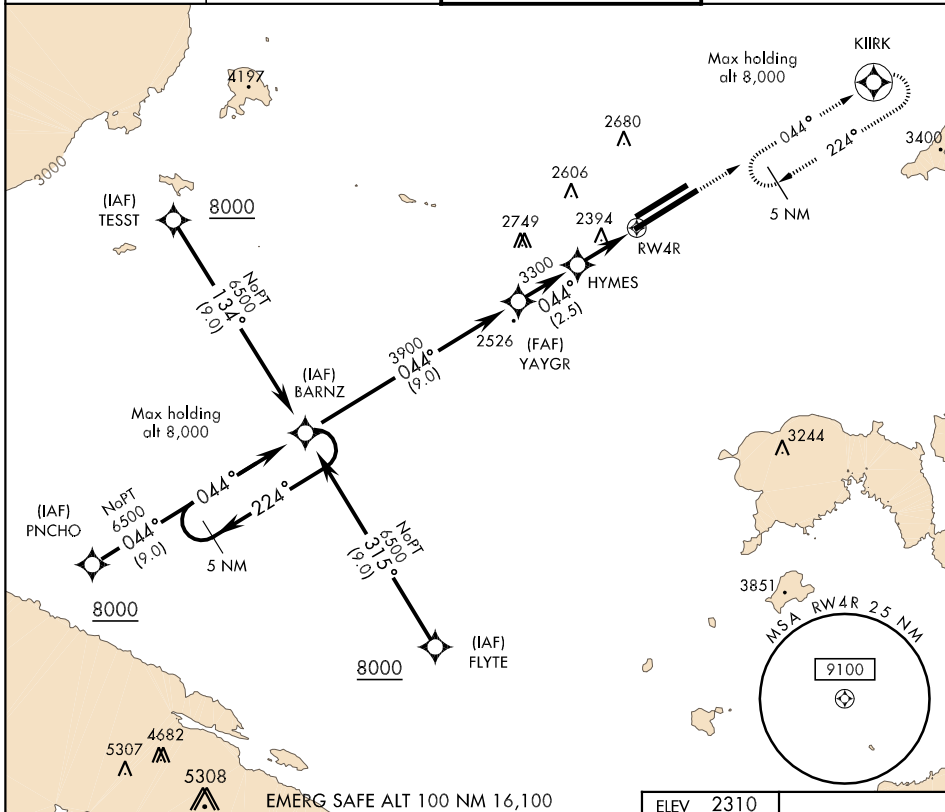
MISSED APPROACH: Proceed direct to KIIRK waypoint and hold.
Maintain 5700.

ATIS ★
269.9

SPORT APP CON
132.75 343.7

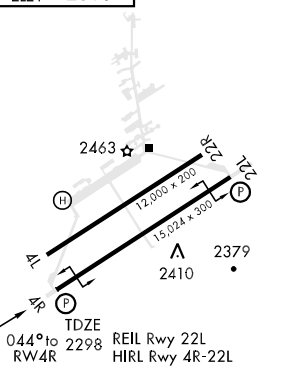
EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



ELEV 2310

CATEGORY	A	B	C	D	E
LNAV MDA	2840-1 542 (600-1)		2840-1½ 542 (600-1½)	2840-1½ 542 (600-1½)	2840-1½ 542 (600-1½)
CIRCLING *	2880-1 568 600-1)		2880-1½ 568 (600-1½)	2880-2 568 (600-2)	3000-2½ 688 (700-2½)



APCH CRS **224°**
 Rwy Idg **15,024**
 TDZE **2285**
 Arpt Elev **2310**

AL-500 [USAF]

EDWARDS AFB (KEDW)



* Circling not authorized NW of Rwy 4R-22L.

MISSED APPROACH: Proceed direct to LDFRD waypoint and hold.
 Maintain 5700.

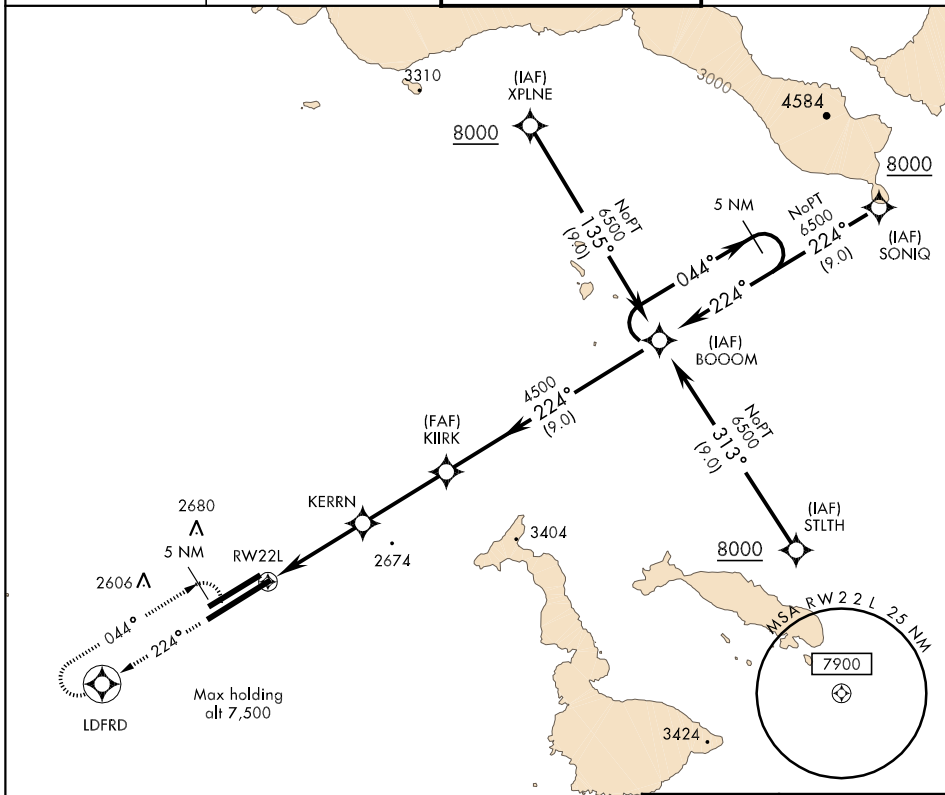
DME/DME RNP-0.3 NA

ATIS ★
269.9

SPORT APP CON
132.75 343.7

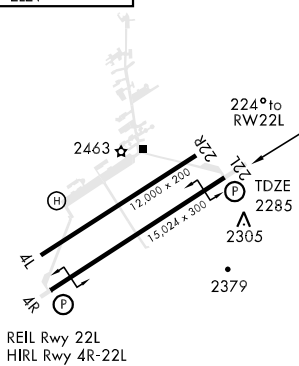
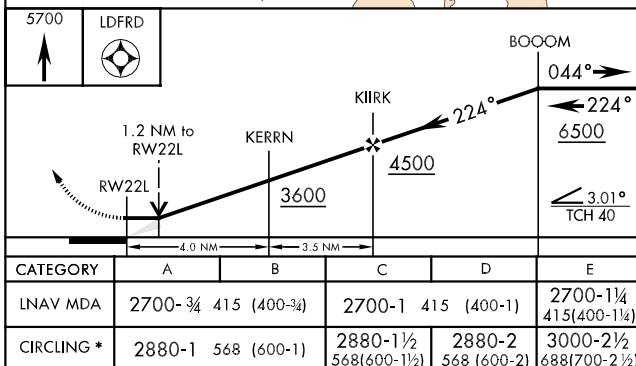
EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



EMERG SAFE ALT 100 NM 16,100

ELEV 2310



VORTAC EDW
116.4
 Chan **111**

APCH CRS
046°

Rwy Idg **12,000**
 TDZE **2312**
 Arpt Elev **2310**

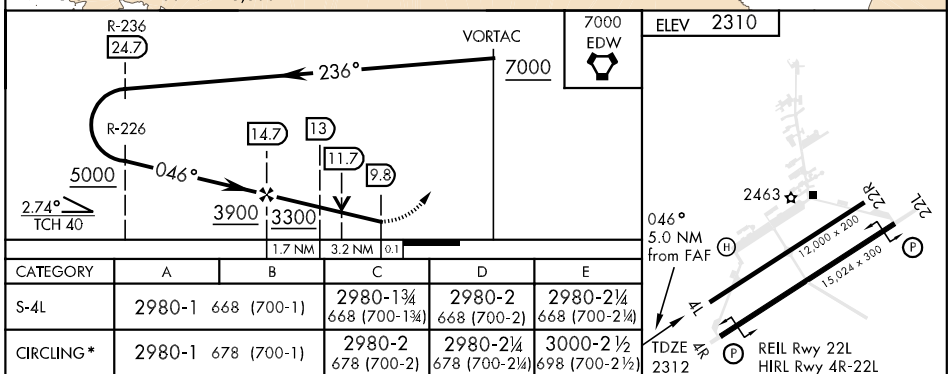
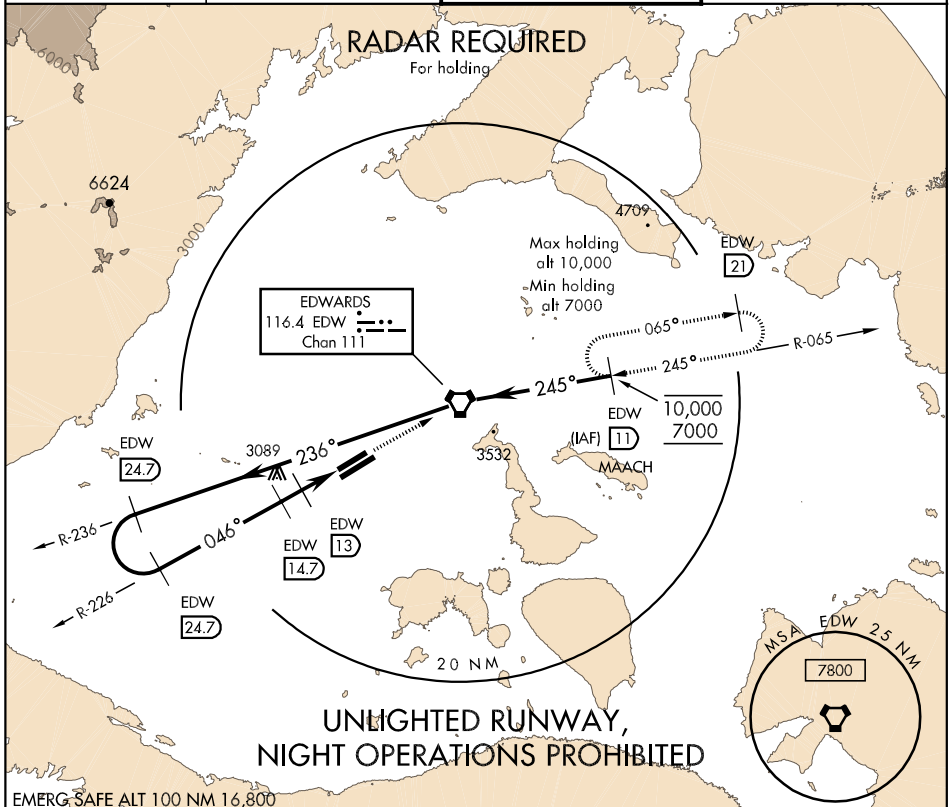
AL-500 [USAF]

EDWARDS AFB (KEDW)

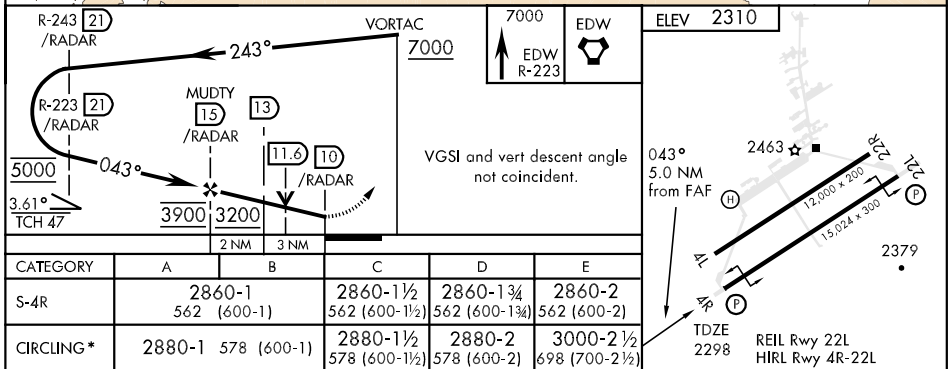
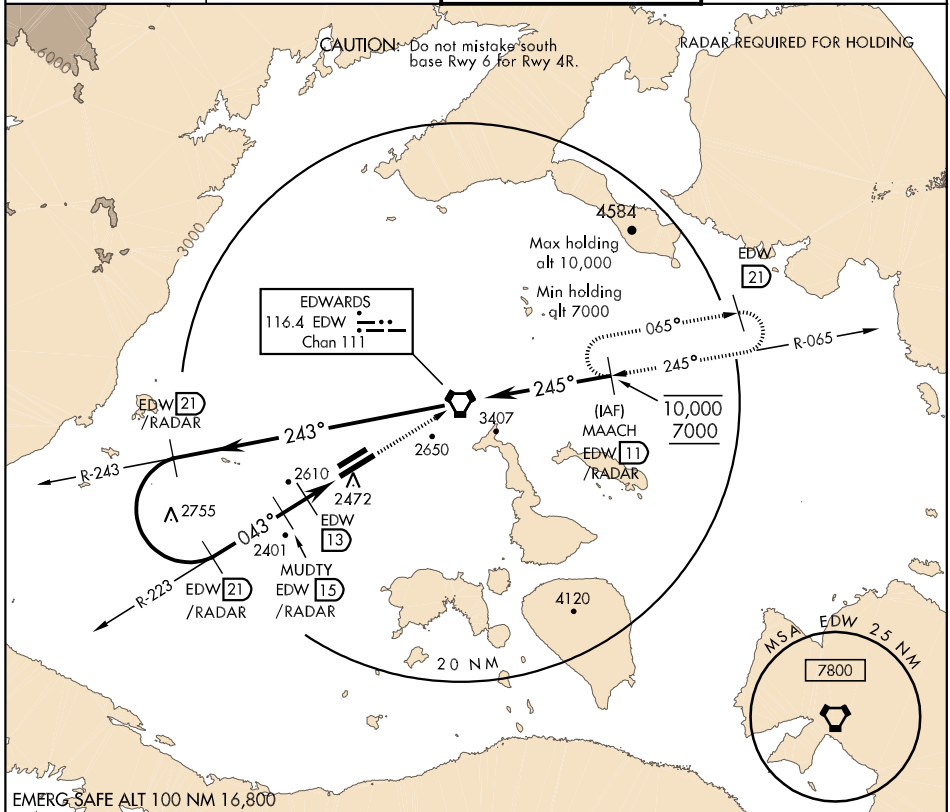
▼ * Circling not authorized NW of Rwy 4L-22R.
 Circling NA at night to Rwy 22R.

MISSED APPROACH: Proceed direct EDW VORTAC, then intercept EDW
 R-065 to EDW 11 DME and hold. Maintain 7000.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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VORTAC EDW 116.4 Chan 111		APCH CRS 043°	Rwy Idg 15,024 TDZE 2298 Arpt Elev 2310	AL-500 [USAF]		EDWARDS AFB (KEDW)	
▼ * Circling not authorized NW of Rwy 4R-22L.				MISSED APPROACH: Track EDW VORTAC R-223 to EDW. Intercept EDW R-065 to 11 DME and hold. Maintain 7000.			
ATIS ★ 269.9		SPORT APP CON 132.75 343.7		EDWARDS TOWER ★ 120.7 318.1		GND CON 121.8 225.4	



VORTAC EDW
116.4
Chạy 111

APCH CRS
223°

Rwy Idg	15,024
TDZE	2285
Arpt Elev	2310

AL-500 [USAF]

EDWARDS AFB (KEDW)

T * Circling not authorized NW of Rwy 4R-22L.

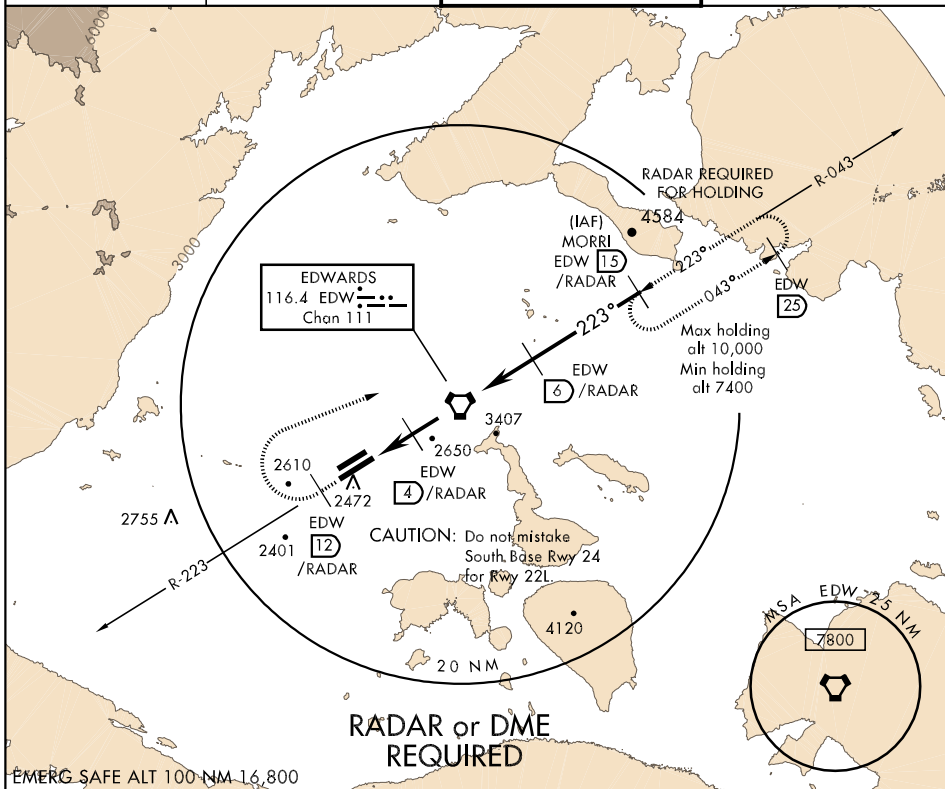
MISSED APPROACH: Track EDW VORTAC R-223 outbound. At 12 DME turn right direct EDW R-043/15 DME and hold. Maintain 7400.

ATIS ★
269.9

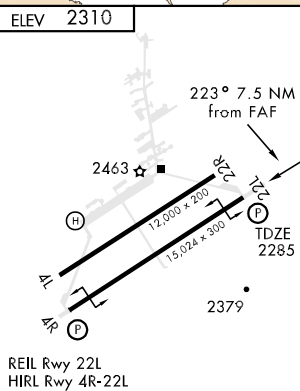
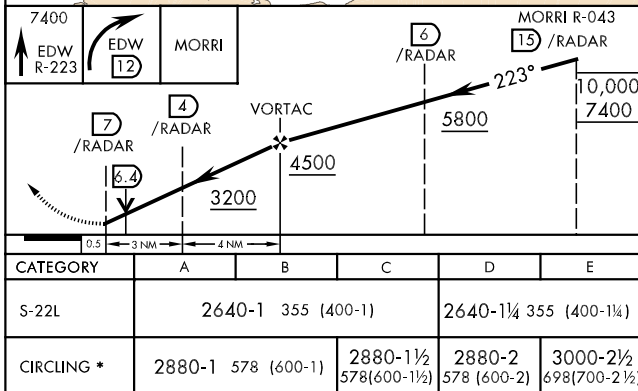
SPORT APP CON
132.75 343.7

EDWARDS TOWER ★
120.7 318.1

GND CON
121.8 225.4



EMERG SAFE ALT 100 NM 16,800



VORTAC EDW
116.4
Chan 111

APCH CRS
226°

Rwy Idg 12,000
TDZE 2292
Arpt Elev 2310

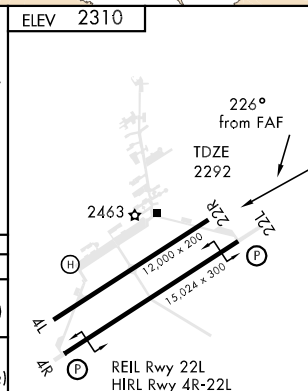
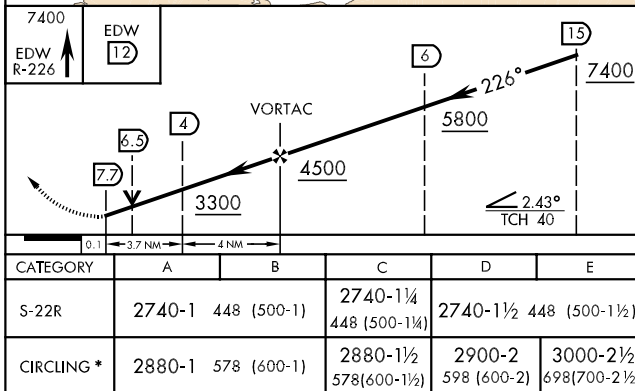
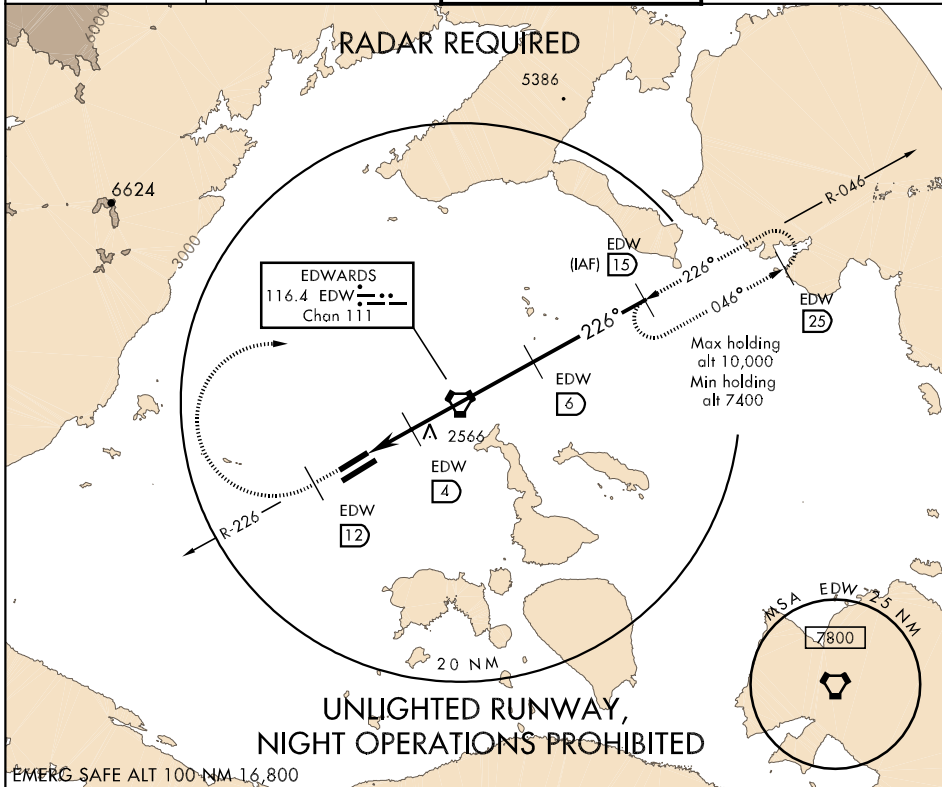
AL-500 [USAF]

EDWARDS AFB (KEDW)

▼ *Circling not authorized NW of Rwy 4L-22R.
Circling NA at night to Rwy 4L.

MISSED APPROACH: Track EDW VORTAC R-226 outbound. At EDW 12 DME turn right direct EDW R-046/15 DME and hold. Maintain 7400.

ATIS ★ 269.9	SPORT APP CON 132.75 343.7	EDWARDS TOWER ★ 120.7 318.1	GND CON 121.8 225.4
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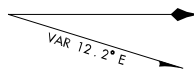
AIRPORT DIAGRAM

AFD-472 [USN]

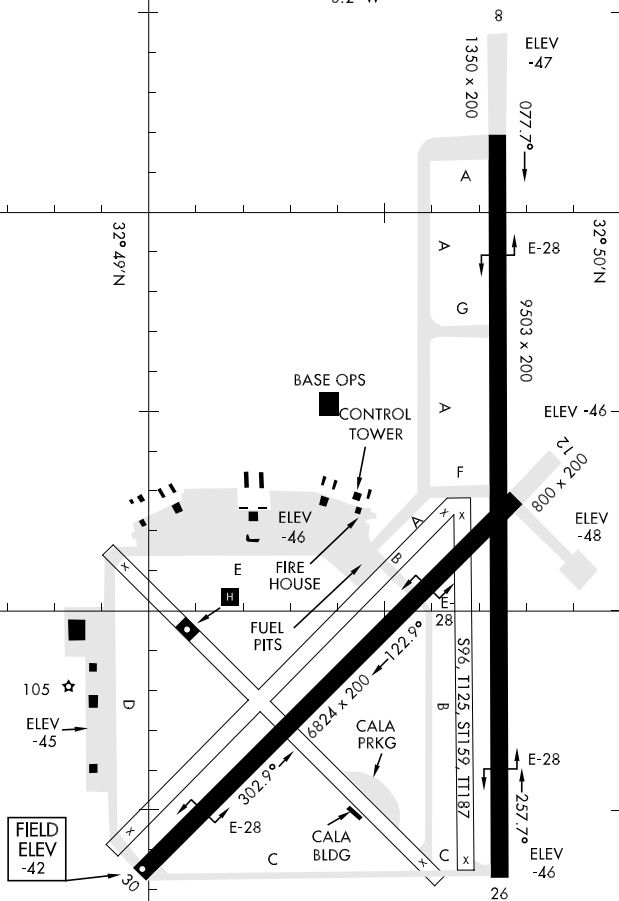
EL CENTRO, CALIFORNIA

ATIS ★ 269.275
EL CENTRO TOWER ★
119.1 360.2
GND CON
121.9 254.35
METRO 348.3
CLNC DEL
340.2

DECEMBER 2007
ANNUAL RATE OF CHANGE
0.2°W



SW-3, 14 JAN 2010 to 11 FEB 2010



Rwy 8-26
PCN 62 R/C/W/T
Rwy 12-30
PCN 35 R/D/W/T

AIRPORT DIAGRAM

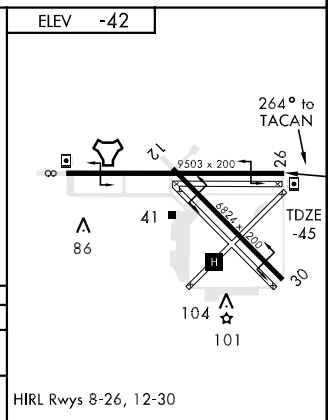
EL CENTRO, CALIFORNIA

EL CENTRO NAF (KNJK)

MISSED APPROACH: Climb to 1000, then climbing left turn to 2000, intercept NJK TACAN R-084 to HATPI and hold.

[illegible]

EMERG SAFE ALT 100 NM 13,600



EL CENTRO NAF (KNJK)

Amdt 1 09127

ATIS ★ 269.275
CLNC DEL 340.2
GND CON
121.9 254.35
EL CENTRO TOWER ★
119.1 360.2
LOS ANGELES CENTER
128.6 291.7

This SID requires 2100 ft ceiling and 2½ miles
visibility for climb in visual conditions.

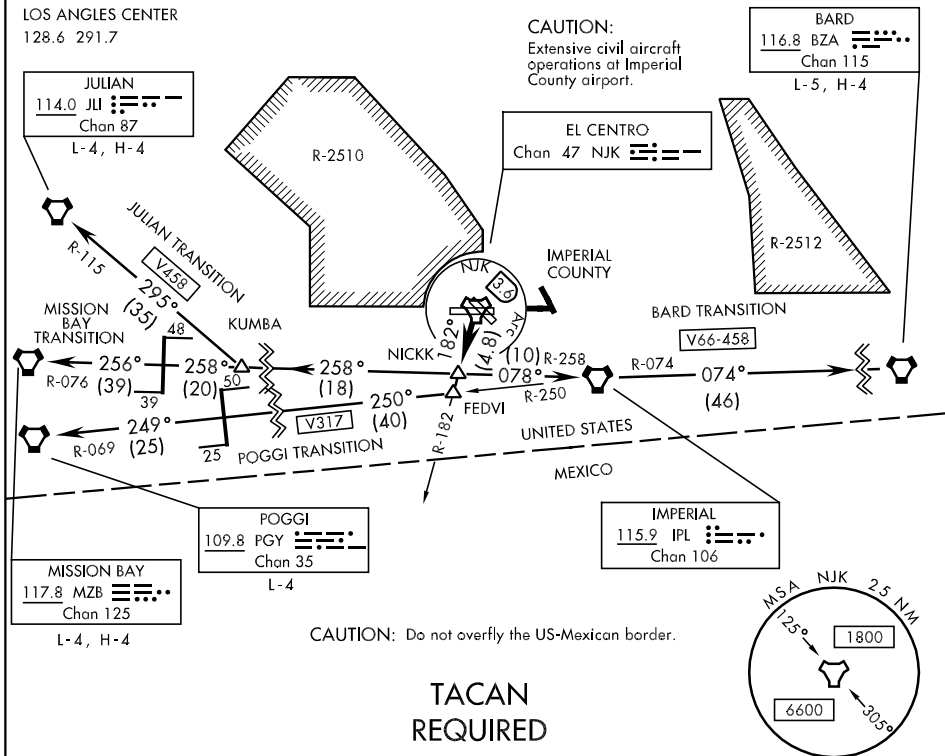
Minimum Climb Rate of 360 ft/NM for Eastbound departures.
Minimum Climb Rate of 440 ft/NM for Westbound departures.

CAUTION:
Extensive civil aircraft
operations at Imperial
County airport.

BARD
116.8 BZA ≡≡≡
Chan 115
L-5, H-4

JULIAN
114.0 JLI ≡≡≡
Chan 87
L-4, H-4

EL CENTRO
Chan 47 NJK ≡≡≡



CAUTION: Do not overfly the US-Mexican border.

TACAN
REQUIRED

EMERG SAFE ALT 100 NM 13,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb in visual conditions within 3.6 DME of NJK TACAN to cross NJK TACAN Southbound at or above 2000, then climb on NJK R-182 to NICKK. Then via assigned transition or route. Expect filed altitude 10 minutes after departure. Cross NICKK at or below 7000.

BARD TRANSITION (NICKK1•BZA): Via IPL VORTAC R-258 to IPL, then via IPL R-074 to BARD VORTAC.

JULIAN TRANSITION (NICKK1•JLI): From over NICKK via IPL VORTAC R-258 to KUMBA, then via JLI VORTAC R-115 to JLI. Cross KUMBA at or above 5600 climbing to 7700.

MISSION BAY TRANSITION (NICKK1•MZB): From over NICKK via IPL VORTAC R-258 and MZB VORTAC R-076 to MZB. Cross KUMBA at or above 6700 climbing to 8000.

POGGI TRANSITION (NICKK1•PGY): From over NICKK continue climb to 7000 via NJK R-182 to FEDVI, then via IPL VORTAC R-250 and PGY VORTAC R-069 to PGY.

APCH CRS
257°

Rwy Idg
TDZE
Arpt Elev
**9503
-45
-42**

AL-472 [USN]

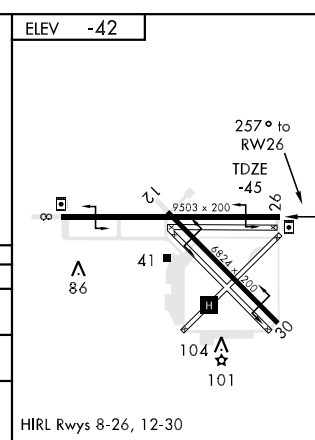
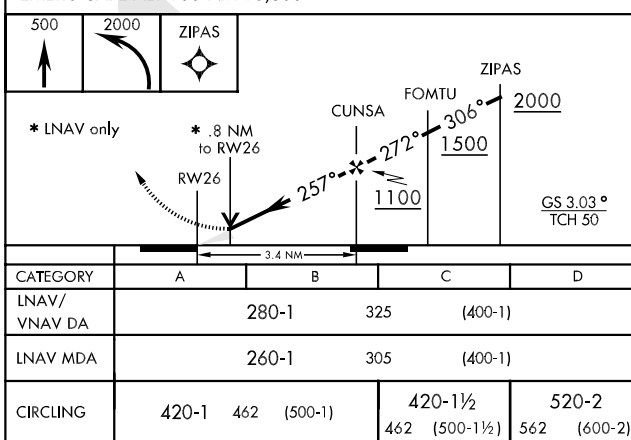
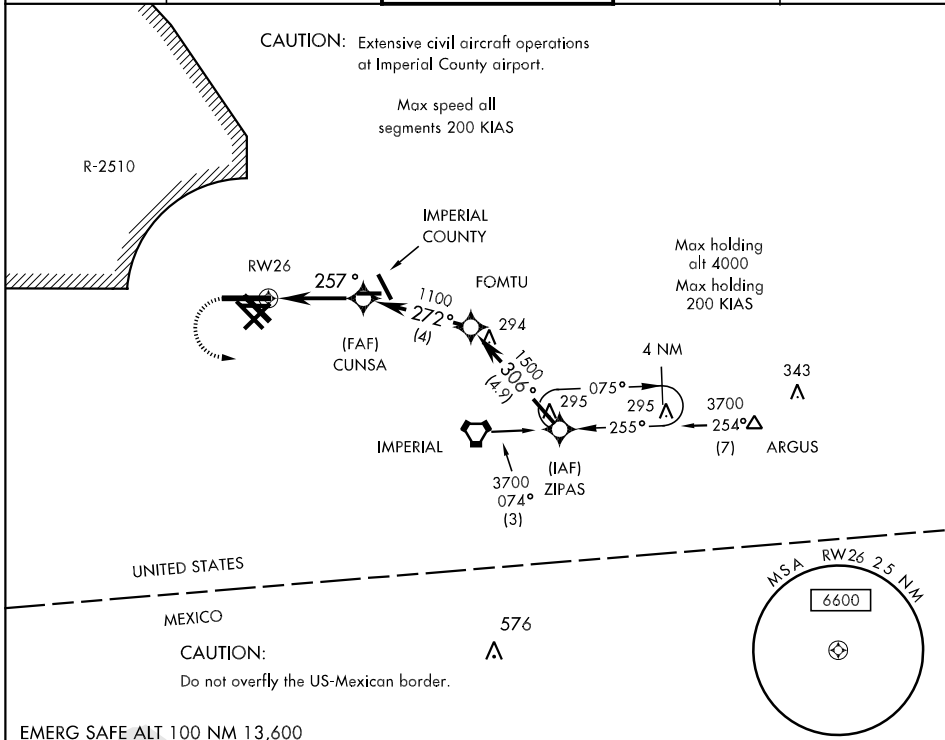
EL CENTRO NAF (KNJK)



For uncompensated Baro VNAV systems, LNAV/VNAV
NA below -14°C(6°F) or above 39°C(103°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 500, then climbing
left turn to 2000 direct ZIPAS and hold.

ATIS ★	LOS ANGELES CENTER	EL CENTRO TOWER ★	GND CON	CLNC DEL
269.275	128.6 291.7	119.1 360.2	121.9 254.35	340.2



WAAS Chan **60099**
W30A

APCH CRS **302°**

Rwy Idg **6824**
TDZE **-42**
Arpt Elev **-42**

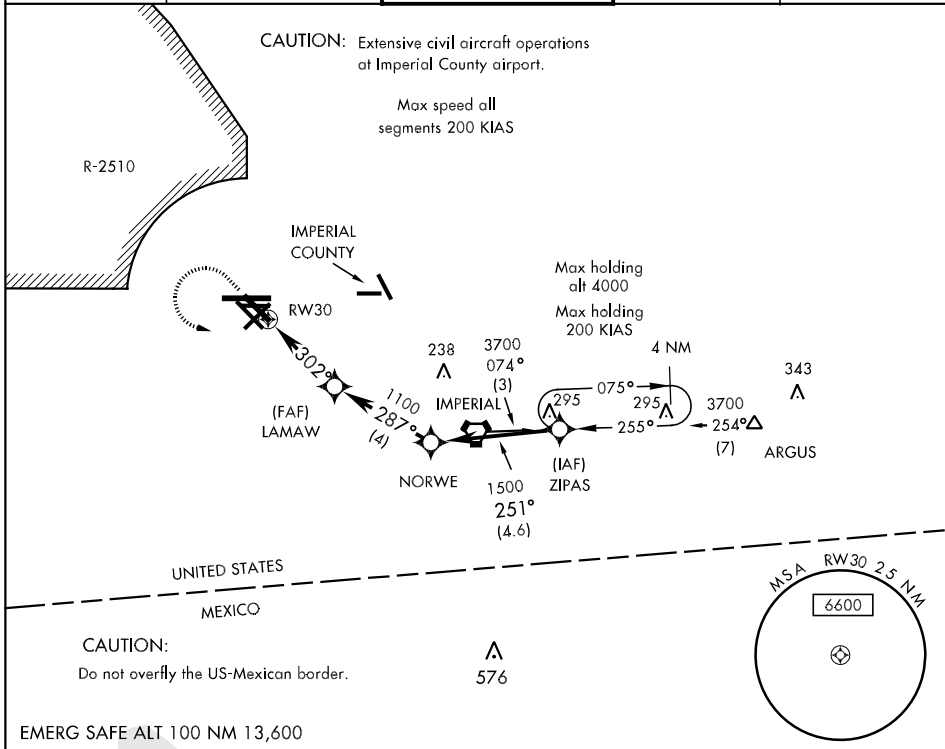
AL-472 [USN]

EL CENTRO NAF (KNJK)

▼ For uncompensated Baro VNAV systems, LNAV/VNAV NA below -14°C(6°F) or above 42°C(108°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 500, then climbing left turn to 2000 direct ZIPAS and hold.

ATIS ★	LOS ANGELES CENTER	EL CENTRO TOWER ★	GND CON	CLNC DEL
269.275	128.6 291.7	119.1 360.2	121.9 254.35	340.2



500

↑

2000

↶

ZIPAS

✦

* LNAV only

* 1.1 NM to RW30

RW30

LAMAW

NORWE

ZIPAS

2000

GS 3.00°

TCH 50

3.4 NM

287°

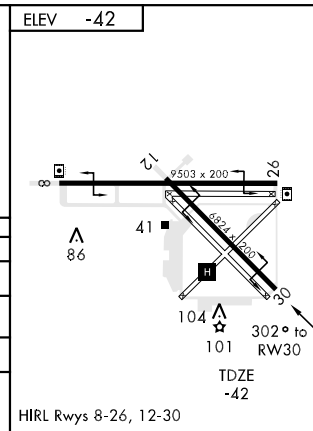
251°

1500

1100

302°

CATEGORY	A	B	C	D
LPV DA	158-¾	200	(200-¾)	
LNAV/ VNAV DA	280-1	322	(400-1)	
LNAV MDA	360-1	402	(500-1)	
CIRCLING	420-1 462 (500-1)	420-1½ 462 (500-1½)	520-2 562 (600-2)	



TACAN NJK
Chan 47

APCH CR
264°

Rwy Idg	9503
TDZE	-45
Arprt Elev	-42

AL-472 [USN]

EL CENTRO NAF (KNJK)



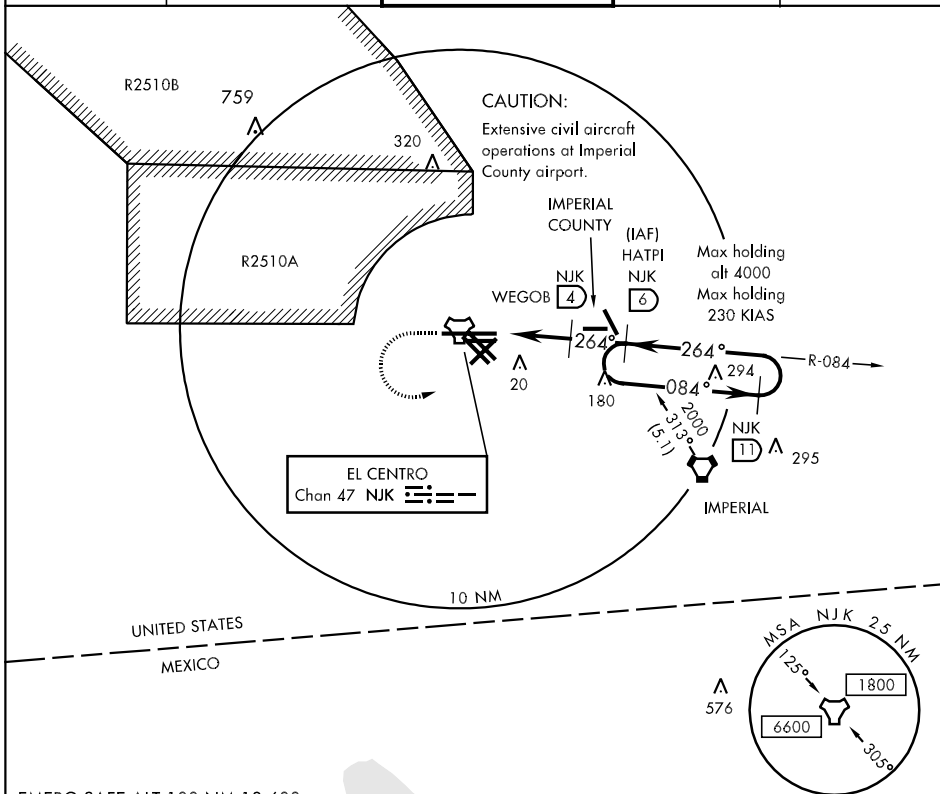
MISSED APPROACH: Climb to 1000, then climbing left turn to 2000, intercept NJK TACAN R-084 to HATPI and hold.

ATIS ★
269.275

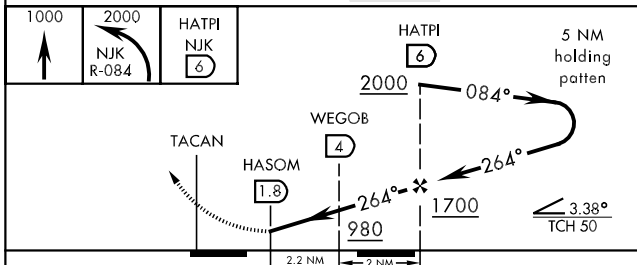
LOS ANGELES CENTER
128.6 291.7

EL CENTRO TOWER
119.1 360.2

GND CON
121.9 254.35

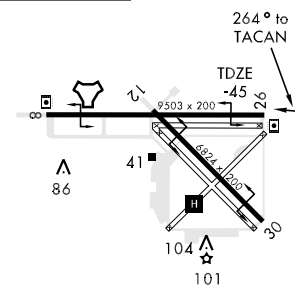
CLNC DEL
340.2

EMERG SAFE ALT 100 NM 13,600



CATEGORY	A	B	C	D
S-26	280-1	325	(400-1)	
CIRCLING	420-1	462 (500-1)	420-1½ 462 (500-1½)	520-2 562 (600-2)

ELEV -42



HIRL Rwy 8-26, 12-30

EL CENTRO, CALIFORNIA

32°49'N-115°40'W

EL CENTRO NAF (KNJK)

Amdt 1 09127

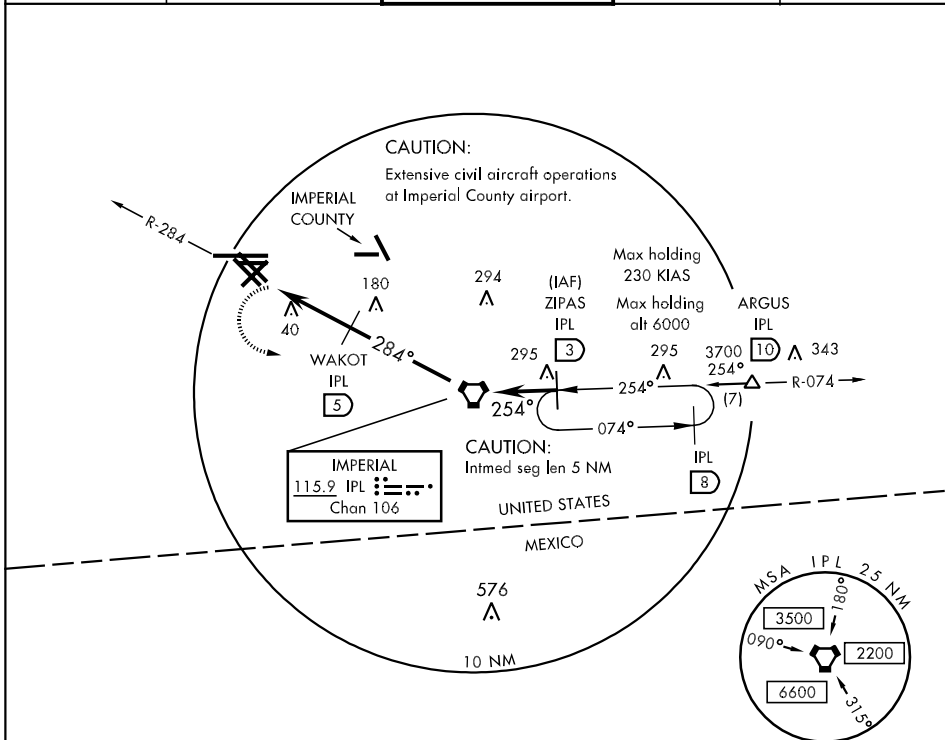
TAGANLRYAYO/

VORTAC IPL 115.9 Chan 106	APCH CRS 284°	Rwy Idg TDZE Arpt Elev 6824 -42 -42
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AL-472 [USN]

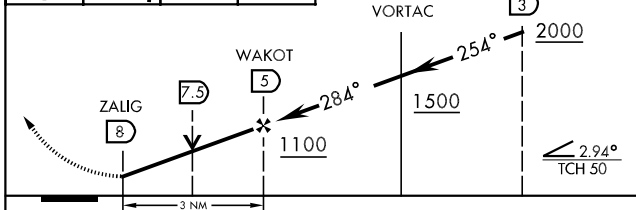
EL CENTRO NAF (KNJK)

			MISSED APPROACH: Climb to 500, then climbing left turn to 2000, direct IPL VORTAC, then via IPL R-074 to ZIPAS and hold.	
ATIS ★ 269.275	LOS ANGELES CENTER 128.6 291.7	EL CENTRO TOWER ★ 119.1 360.2	GND CON 121.9 254.35	CLNC DEL 340.2



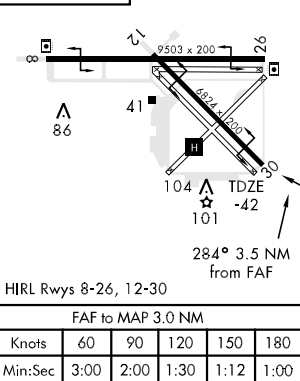
EMERG SAFE ALT 100 NM 13,600

500 ↑	2000 ↶	IPL 	ZIPAS IPL 3
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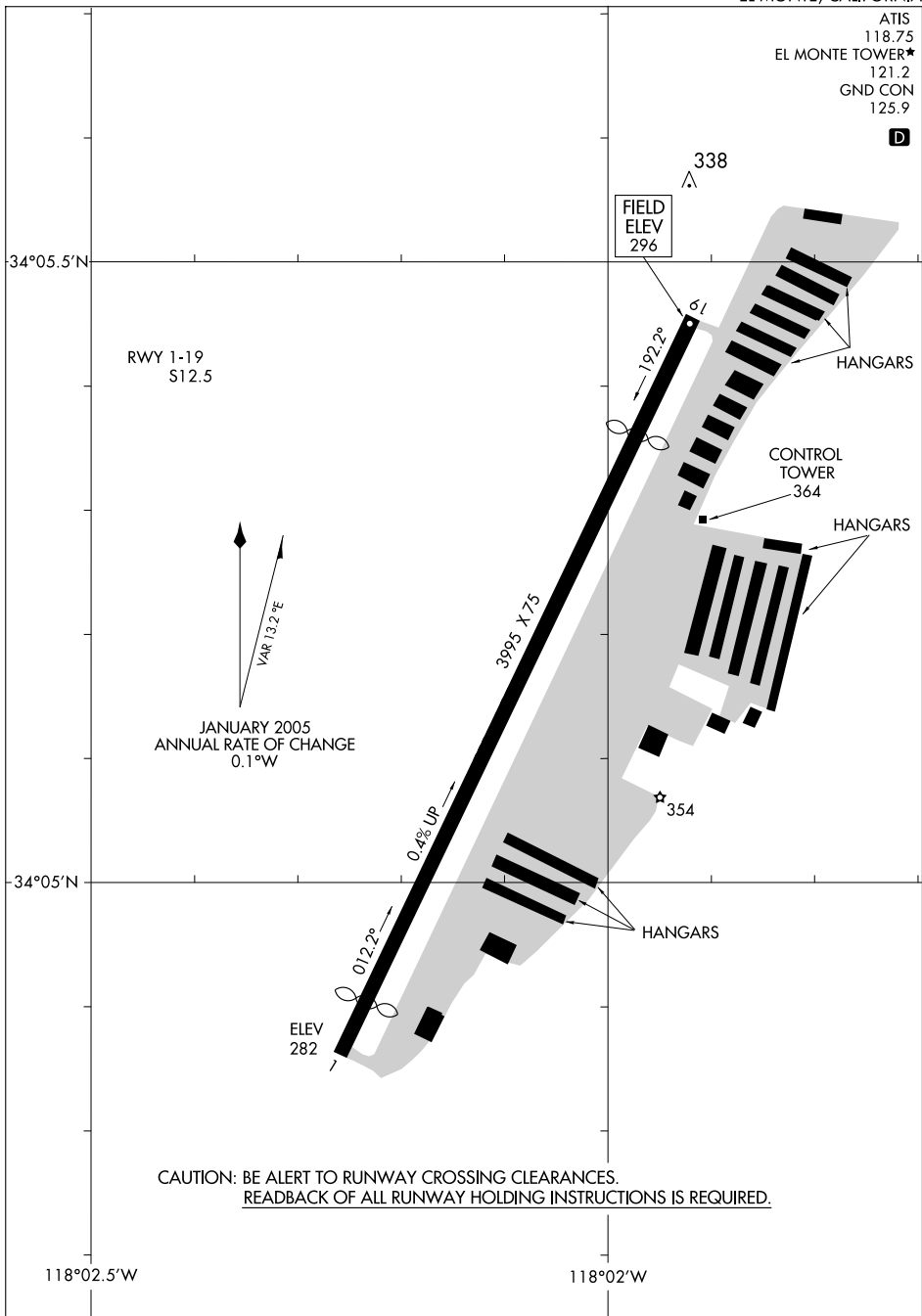
CATEGORY	A	B	C	D
S-30	300-1	342 (400-1)	342 (400-1½)	300-1½ 342 (400-1½)
CIRCLING	420-1 462 (500-1)	420-1½ 462 (500-1½)	520-2 562 (600-2)	

ELEV -42



AIRPORT DIAGRAM

AL-5639 (FAA)

EL MONTE (EMT)
EL MONTE, CALIFORNIA

NDB EMT 359	APP CRS 258°	Rwy Idg TDZE Apt Elev	N/A N/A 296
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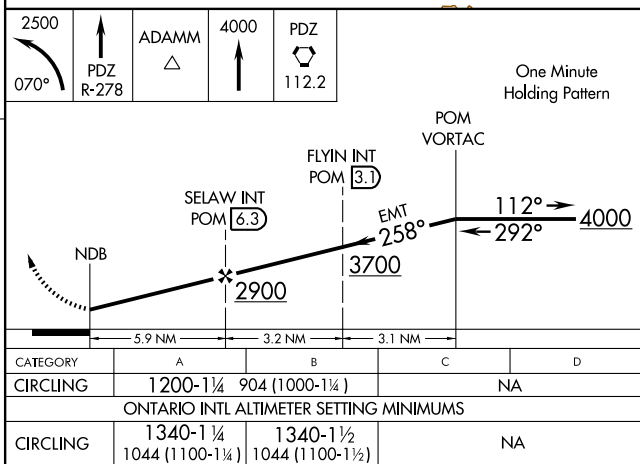
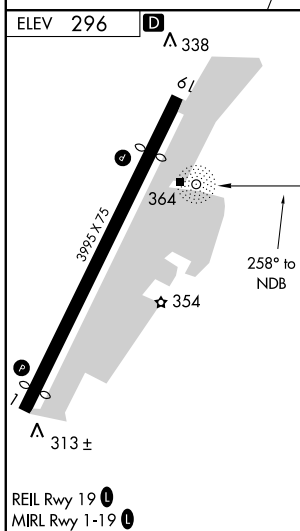
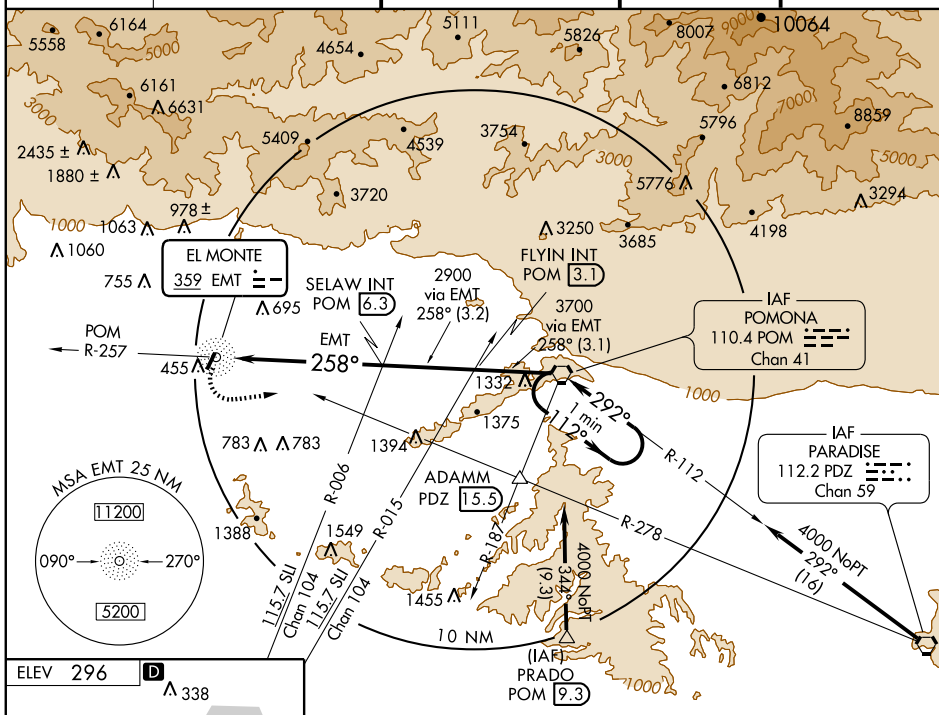
NDB or GPS-C
EL MONTE (EMT)

EL MONTE (EMT)

T When local altimeter setting not received, use Ontario Int'l
A altimeter setting.

MISSED APPROACH: Climbing left turn to 2500 via heading 070° and PDZ R-278 to ADAMM Int, then continue climb to 4000 to PDZ VORTAC.

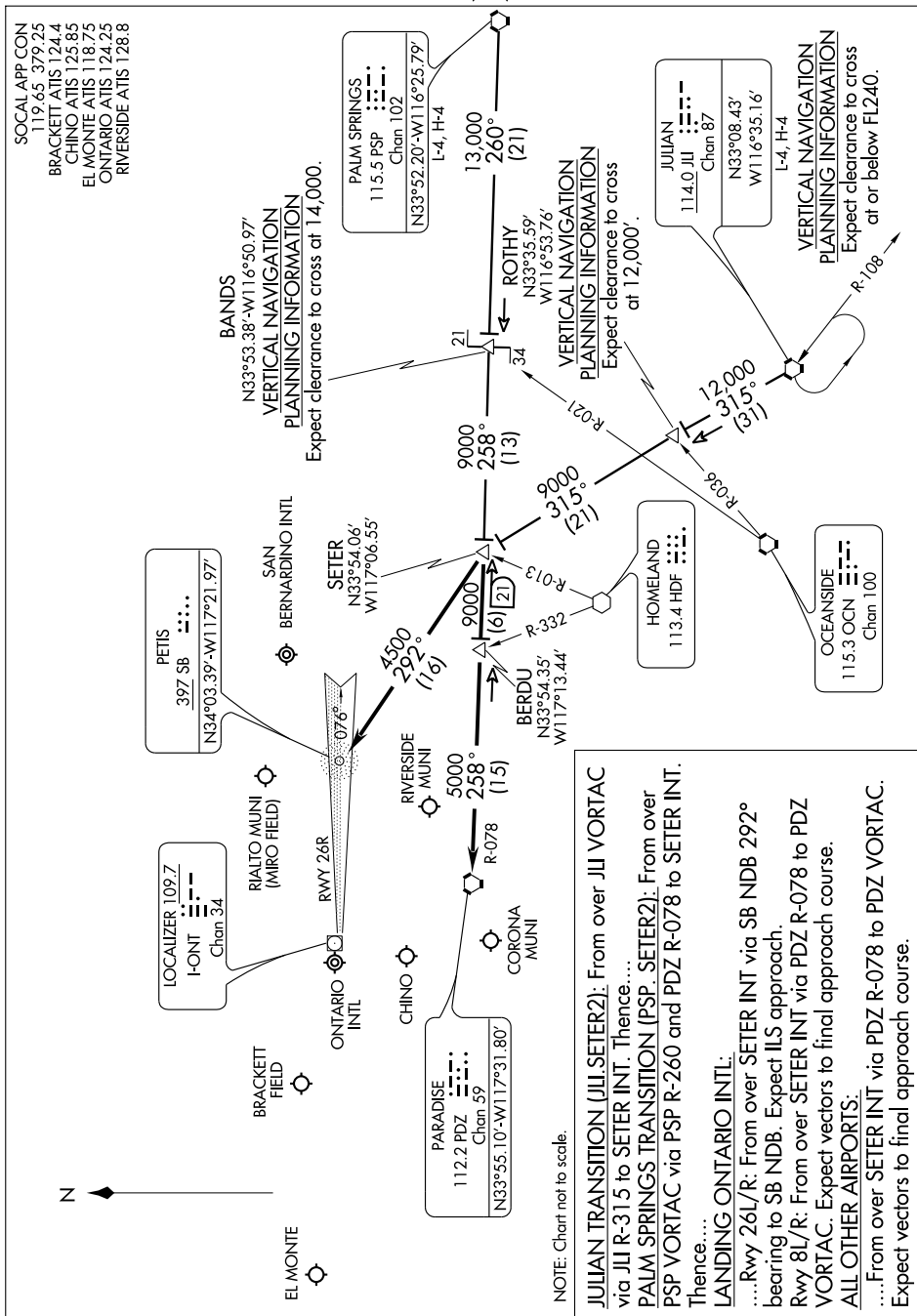
ATIS 118.75	SOCAL APP CON 125.5 349.0	EL MONTE TOWER★ 121.2 (CTAF) 0	GND CON 125.9	UNICOM 122.95
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SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA



VORTAC PDZ 112.2 Chan 59	APP CRS 096°	Rwy Idg TDZE Apt Elev	N/A N/A 296
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VOR/DME or GPS-B
EL MONTE (EMT)

T When local altimeter setting not received, use Ontario Intl altimeter setting.

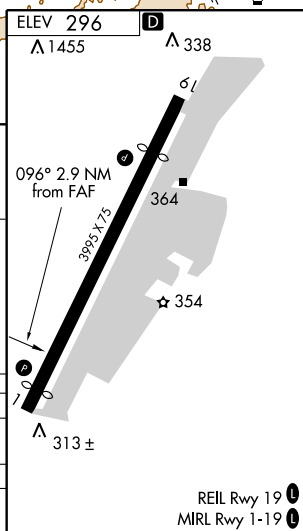
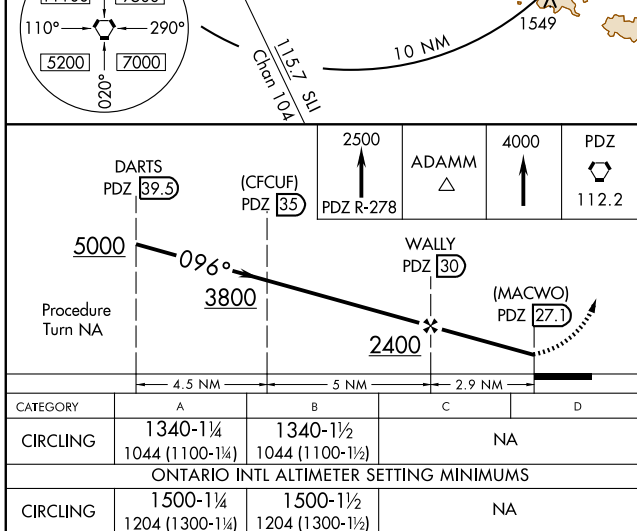
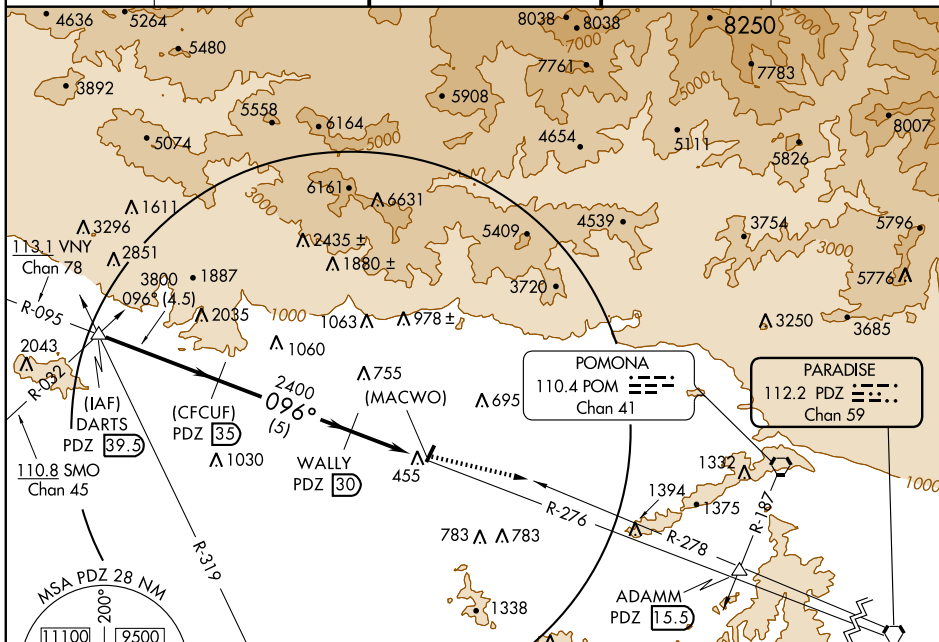
MISSED APPROACH: Climb to 2500 via PDZ R-278 to ADAMM Int. then continue climb to 4000 to PDZ VORTAC.

ATIS
118.75

SOCAL APP CON
125.5 349.0

EL MONTE TOWER ★
121.2 (CTAF) L

GND CON
125.9

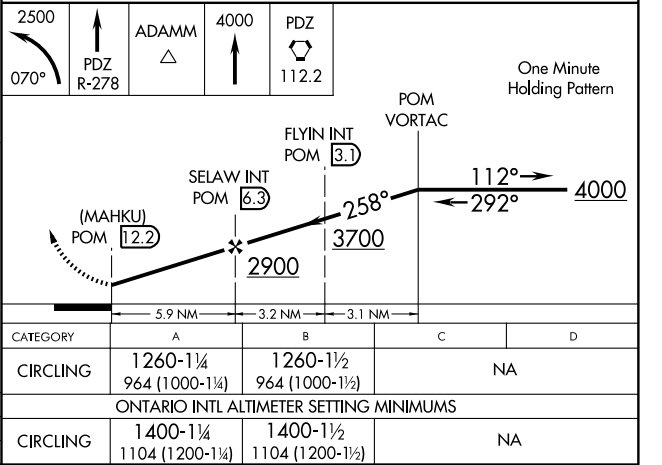
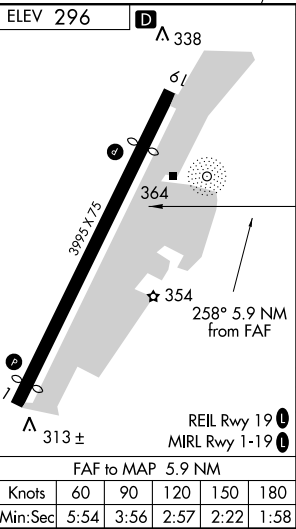
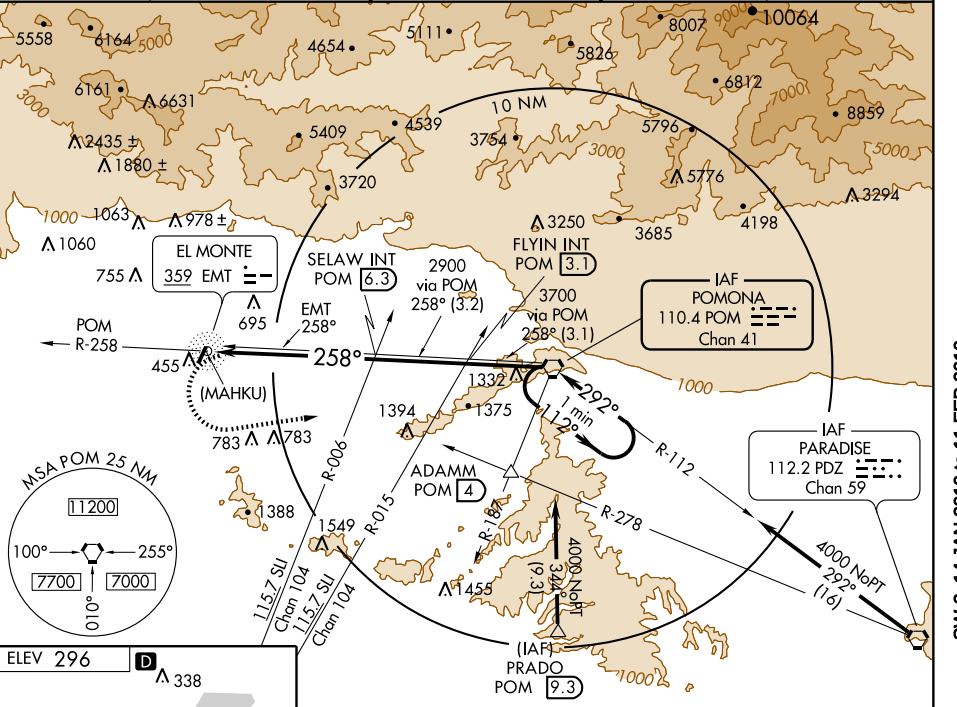
UNICOM
122.95

SW-3. 14 JAN 2010 to 11 FEB 2010

When local altimeter setting not received, use Ontario Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 2500 via heading 070° and PDZ R-278 to ADAMM Int, then continue climb to 4000 to PDZ VORTAC.

ATIS 118.75	SOCAL APP CON 125.5 349.0	EL MONTE TOWER★ 121.2 (CTAF) 0	GND CON 125.9	UNICOM 122.95
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ZIGGY FOUR ARRIVAL

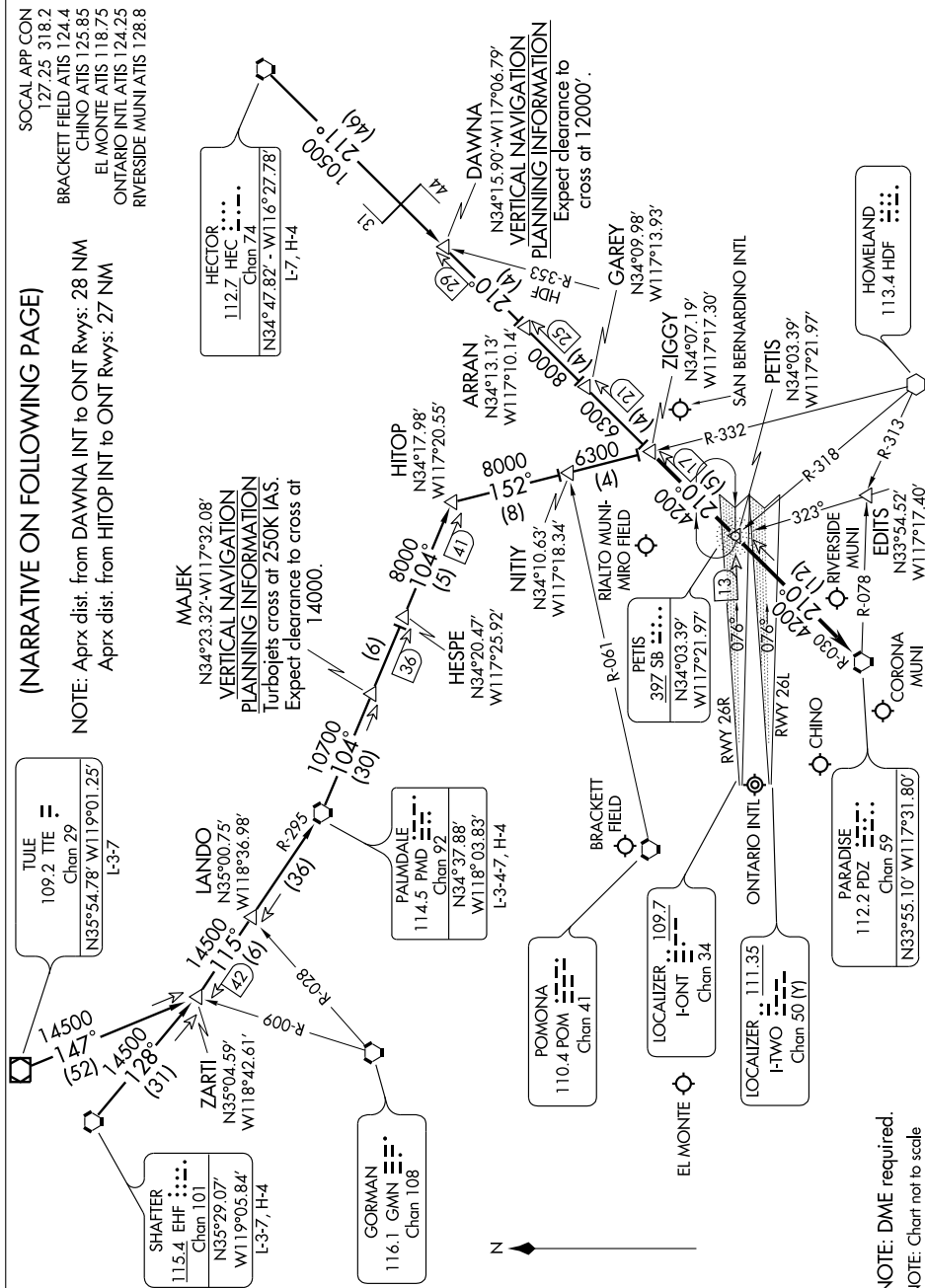
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

APP CRS	Rwy Idg	N/A
020°	TDZE	N/A
	Apt Elev	7

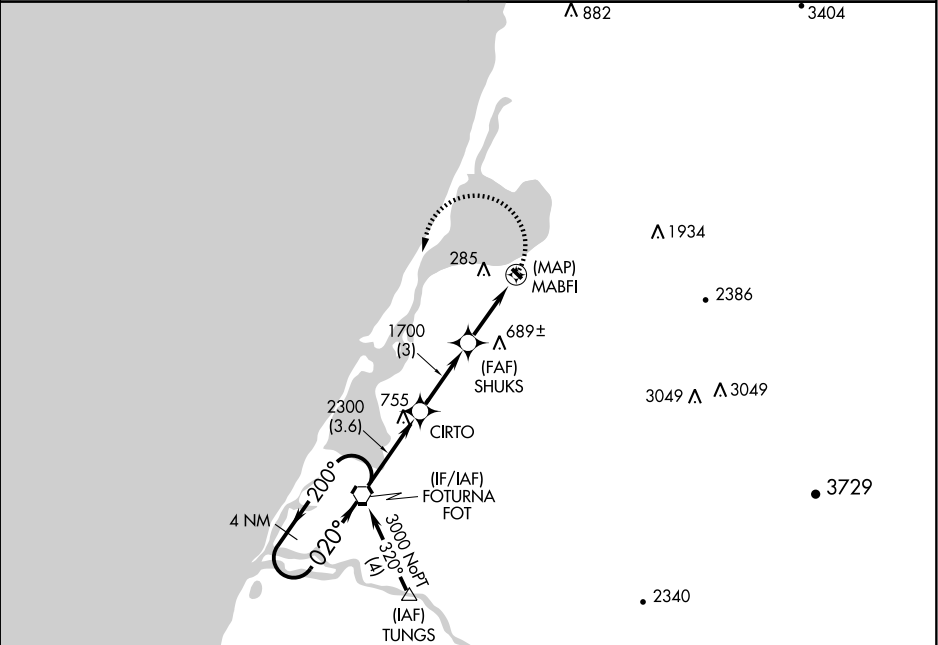
RNAV (GPS)-B

EUREKA/MURRAY FIELD (EKA)

V DME/DME RNP -0.3 NA.
NA Use Arcata altimeter setting when not received, use Crescent City altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climbing left turn to 3000 direct FOT VORTAC and hold.

SEATTLE CENTER 124.85 306.3	UNICOM 122.7 (CTAF) 1
--------------------------------	---------------------------------



ELEV 7				
CATEGORY	A	B	C	D
CIRCLING	980-1¼ 973 (1000-1¼)	980-1½ 973 (1000-1½)	1060-3 1053 (1100-3)	NA

MIRL Rwy 12-30 **1**

APP CRS	Rwy Idg	3000
115°	TDZE	7
	Apt Elev	7

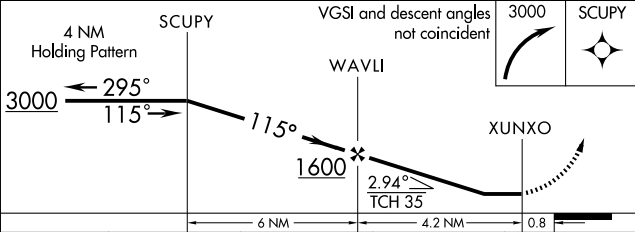
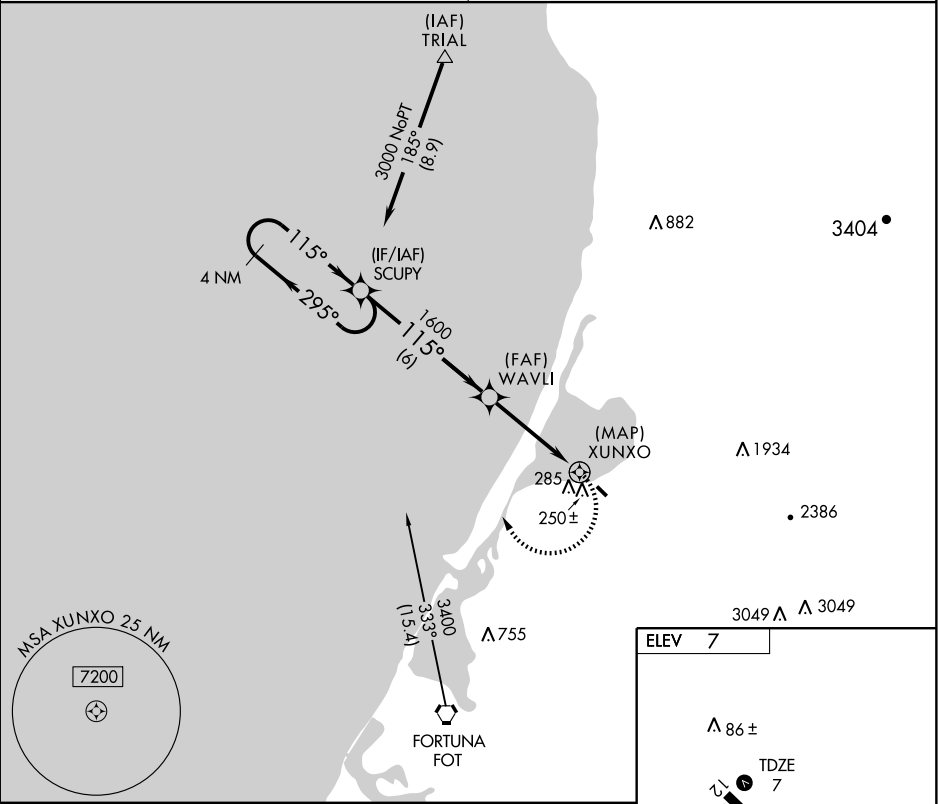
RNAV (GPS) RWY 12

EUREKA/MURRAY FIELD (EKA)

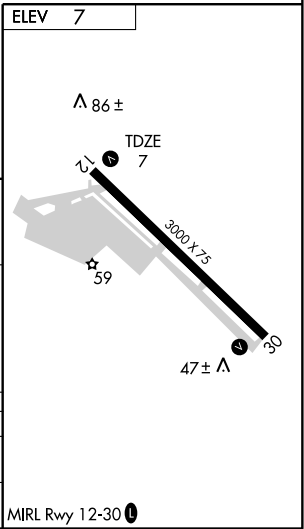
NA DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Use Arcata altimeter setting, when not received, use Crescent City altimeter setting and increase all MDA 100 feet and increase LNAV Cat C and circling Cat B visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 3000 direct SCUPY and hold.

SEATTLE CENTER 124.85 306.3	UNICOM 122.7 (CTAF) 1
--------------------------------	--------------------------



CATEGORY	A	B	C	D
LNAV MDA	760-1 753 (800-1)	760-1¼ 753 (800-1¼)	760-2¼ 753 (800-2¼)	NA
CIRCLING	760-1 753 (800-1)	880-1¼ 873 (900-1¼)	1060-3 1053 (1100-3)	NA

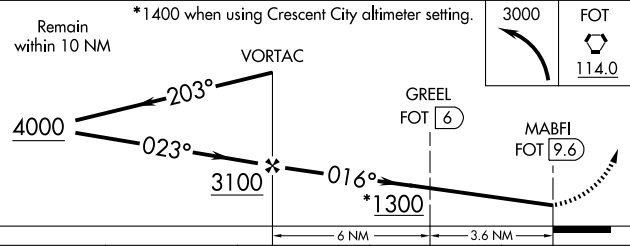
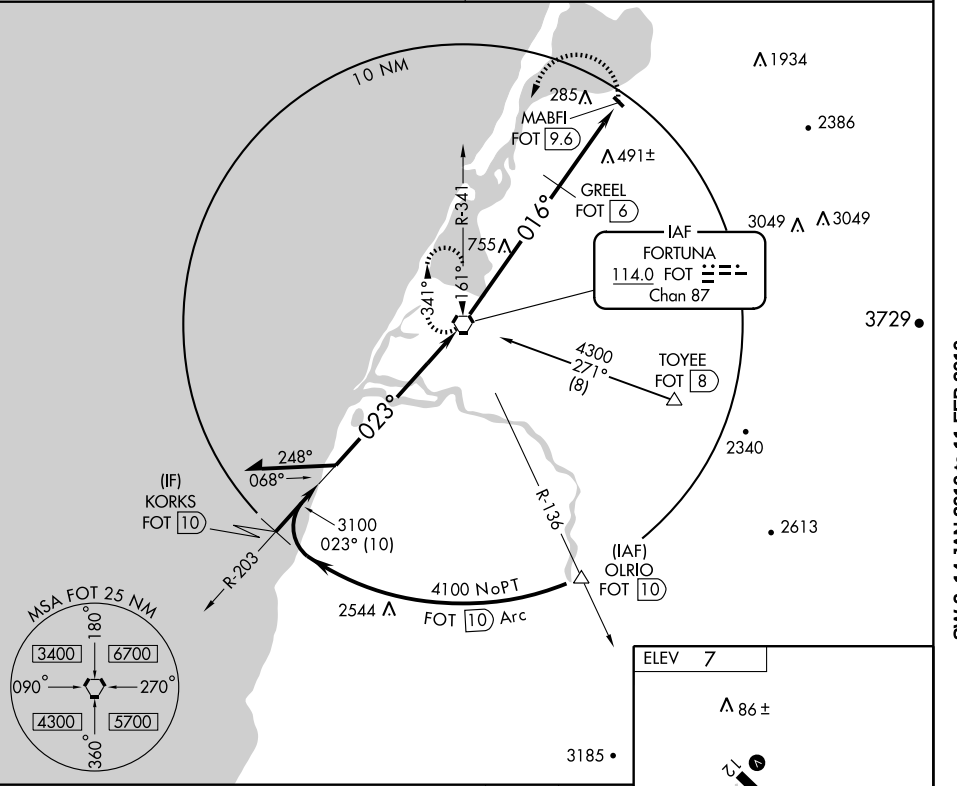


Use Arcata altimeter setting; when not received, use Crescent City altimeter setting and increase all MDA 100 feet and increase GREEL fix minimums visibility Cats. A and B ¼ mile.

MISSED APPROACH: Climbing left turn to 3000 direct FOT VORTAC and hold.

SEATTLE CENTER
124.85 306.3

UNICOM
122.7 (CTAF)

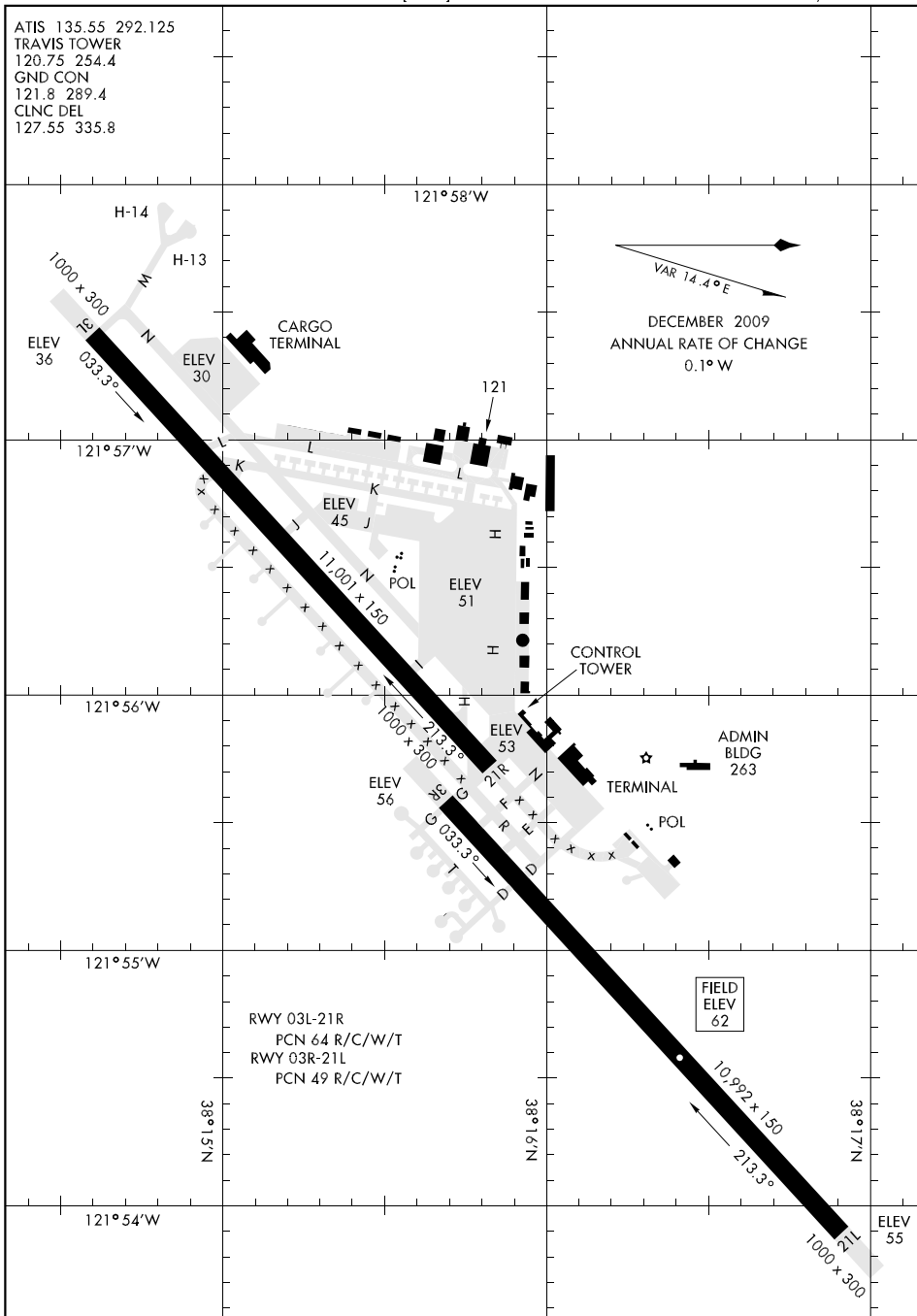


CATEGORY	A	B	C	D
CIRCLING	1300-1¼ 1293 (1300-1¼)	1300-1½ 1293 (1300-1½)	1300-3 1293 (1300-3)	NA
GREEL FIX MINIMUMS				
CIRCLING	860-1 853 (900-1)	880-1¼ 873 (900-1¼)	1060-3 1053 (1100-3)	NA
FAF to MAP 9.6 NM				
Knots		60	90	120
Min:Sec		9:36	6:24	4:48
		3:50	3:12	

SW-2, 14 JAN 2010 to 11 FEB 2010

ATIS 135.55 292.125
 TRAVIS TOWER
 120.75 254.4
 GND CON
 121.8 289.4
 CLNC DEL
 127.55 335.8

SW-2, 14 JAN 2010 to 11 FEB 2010



LOC I-TXV 108.35	APCH CRS 032°	Rwy Idg 11,001 TDZE 36 Arpt Elev 62
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AL-488 [USAF]

TRAVIS AFB (KSUU)



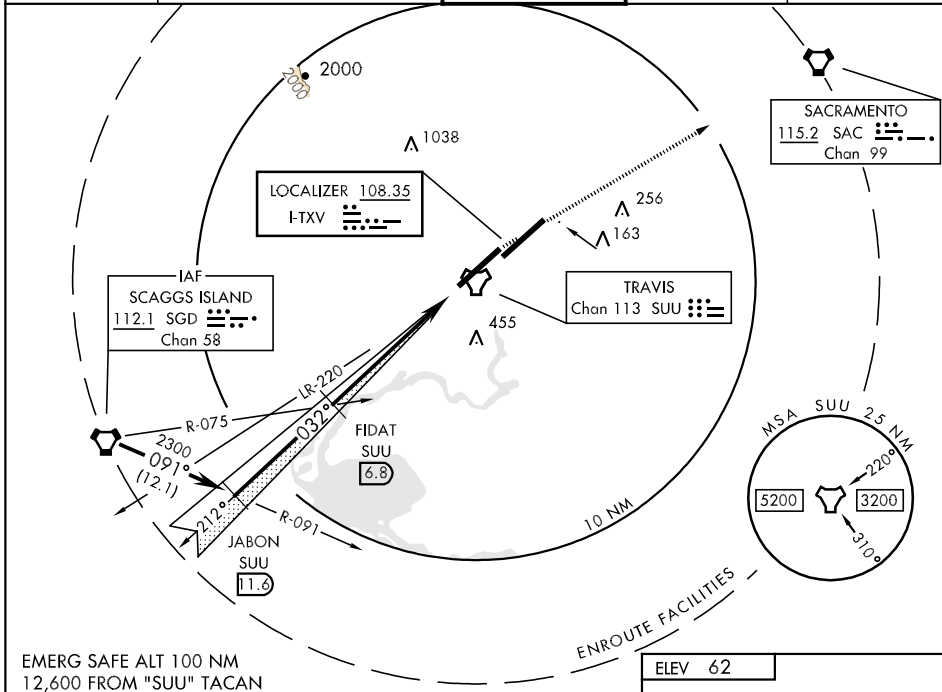
* Circling not authorized NW of Rwy 3L-21R.

** VDP NA for sidestep maneuver to Rwy 3R.

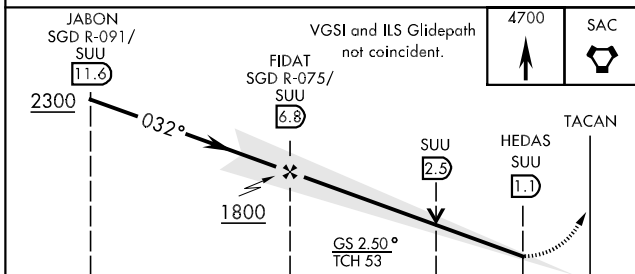
MISSED APPROACH: Climb to 4700 direct SAC VORTAC.

Prior to reaching SAC expect further clearance from ATC.

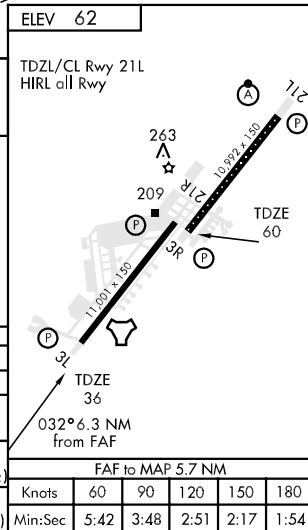
ATIS 135.55 292.125	TRAVIS APP CON 119.9 (S) 126.6 (N) 291.0	TRAVIS TOWER 120.75 254.4	GND CON 121.8 289.4	CLNC DEL 127.55 335.8
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EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN



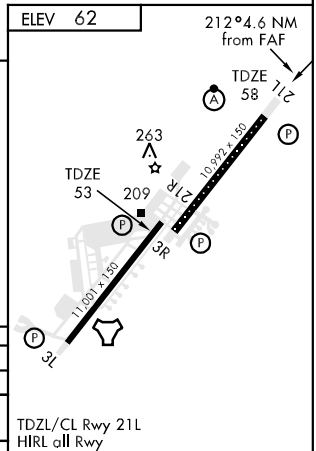
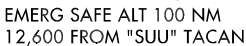
CATEGORY	A	B	C	D	E
S-ILS 3L	236/40		200	(200-3/4)	
S-LOC 3L	620/50	584 (600-1)	620-1 1/2 584 (600-1 1/2)	620-1 3/4 584 (600-1 3/4)	620-2 584 (600-2)
SIDESTEP ** RWY 3R	760/50	700 (700-1)	760-2 700 (700-2)	760-2 1/4 700 (700-2 1/4)	760-2 1/2 700 (700-2 1/2)
CIRCLING *	620-1	558 (600-1)	620-1 1/2 558 (600-1 1/2)	800-2 1/4 738 (800-2 1/4)	1440-3 1378 (1400-3)



TRAVIS AFB (KSUU)

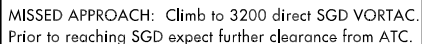
MISSED APPROACH: Climb to 3500 via TZZ
VOR R-212 to HISEL, then turn left direct TZZ
and hold, continue climb in holding to 3500.

*** Circling not authorized
NW of Rwy 3L-21R.

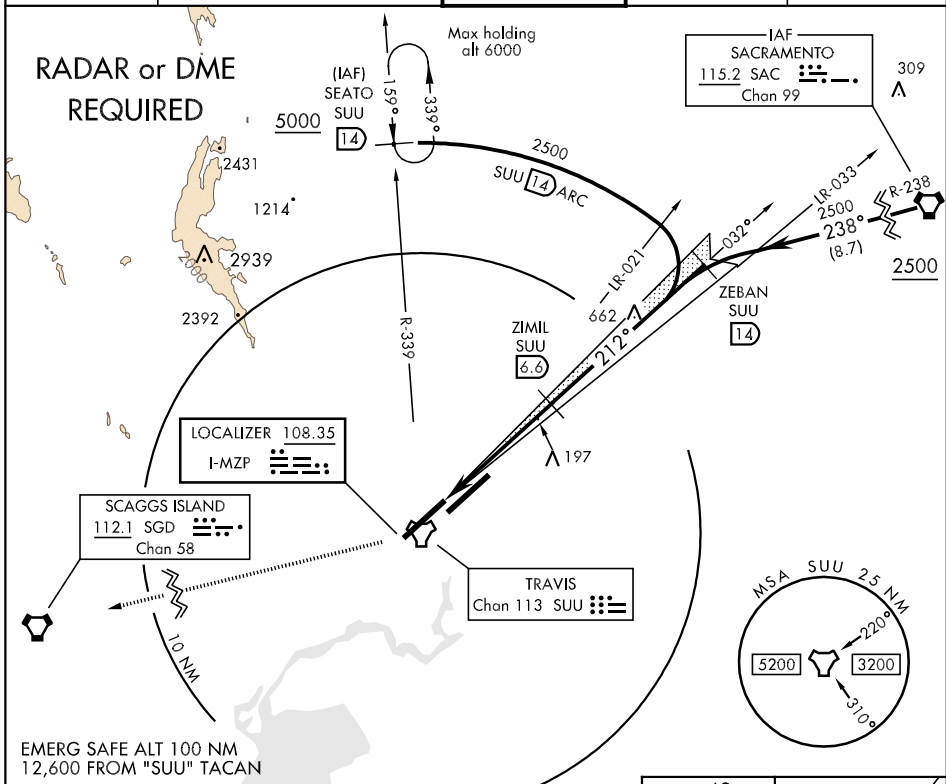


FAF to MAP 4.1 NM					
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

TRAVIS AFB (KSUU)



CLNC DEL
127.55 335.8



SW-2, 14 JAN 2010 to 11 FEB 2010

SGD



VGSI and ILS Glidepath not coincident

ZEBAN
Intcp
LOC
14

TACAN

ZAMOS

44

1

Σ 3.00
TCH 49

L Rwy 21L

Kwy

--	--

50	180
----	-----

2:05	1:44
------	------

TRAVIS AFB (KSUU)

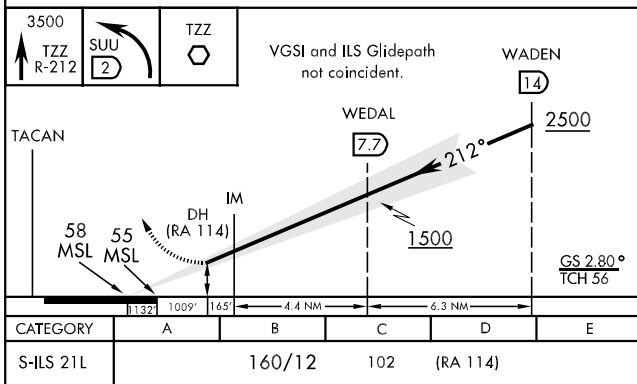
Amdt 1 09351

TRAVIS AFB (KSUU)



MISSED APPROACH: Climb to 3500 via TZZ
VOR R-212 to HISEL, then turn left direct TZZ
and hold, continue climb in holding to 3500.

CATEGORY II ILS SPECIAL AIRCREW &
AIRCRAFT CERTIFICATION REQUIRED



ATIS 135.55 292.125
 CLNC DEL
 127.55 335.8
 GND CON
 121.8 289.4
 TRAVIS TOWER
 120.75 254.4
 TRAVIS DEP CON
 126.6 306.9

SHL-488 [USAF]

RAILE
 L-2-3, H-3

WILLIAMS
 114.4 ILA 
 Chan 91
 L-2-3, H-3

SACRAMENTO
 115.2 SAC 
 Chan 99
 L-2-3, H-3

DUDES
 L-2-3, H-3

MANTECA
 116.0 ECA 
 Chan 107
 L-2-3, H-3

TRAVIS
 Chan 113 SUU 

A 2948

DEPARTURE ROUTE DESCRIPTION

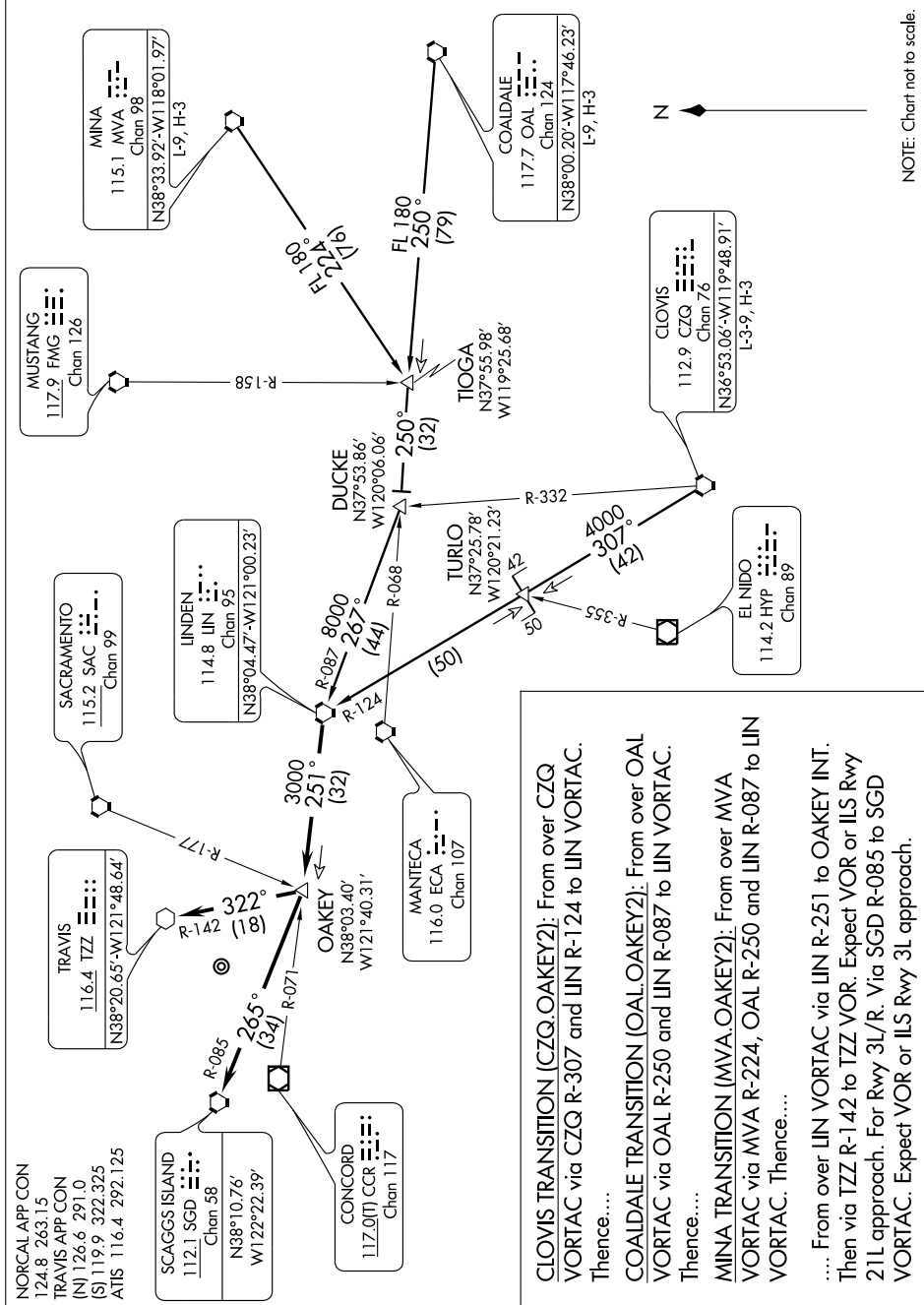
TAKE-OFF RWY 3L/R: Climb via heading 032° to intercept and fly SAC VORTAC R-224 to SAC. Then via assigned transition.

DUDES TRANSITION (MENTO1•DUDES): Turn right intercept and fly SAC R-058 to 65.3 DME (DUDES).

MANTECA TRANSITION (MENTO1•ECA): Turn right intercept and fly SAC R-137 to ECA VORTAC R-317 to ECA.

RAILE TRANSITION (MENTO1•RAILE): Turn left intercept and fly SAC R-311 to ILA VORTAC R-131 to ILA then turn right intercept and fly ILA R-057 to 28.1 DME (RAILE).

WILLIAMS TRANSITION (MENTO1•ILA): Turn left intercept and fly SAC R-311 to ILA R-131 to ILA.



NOTE: Chart not to scale.

SW-2. 14 JAN 2010 to 11 FEB 2010

APCH CRS
032°

Rwy ldg **11,001**
TDZE **36**
Arpt Elev **62**

AL-488 [USAF]

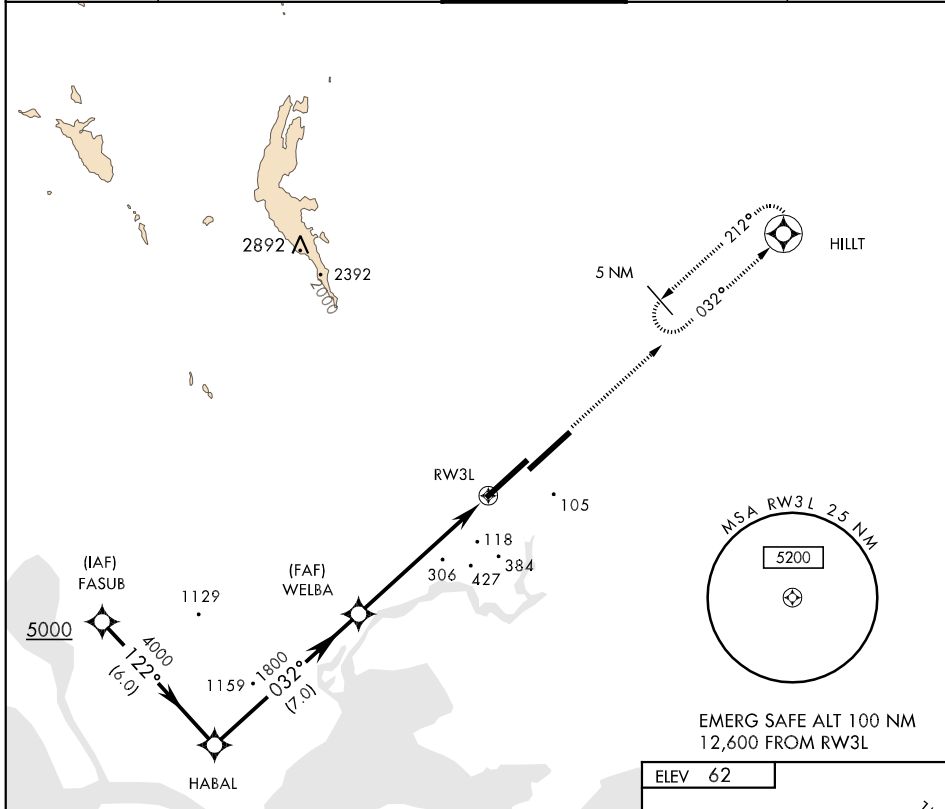
TRAVIS AFB (KSUU)



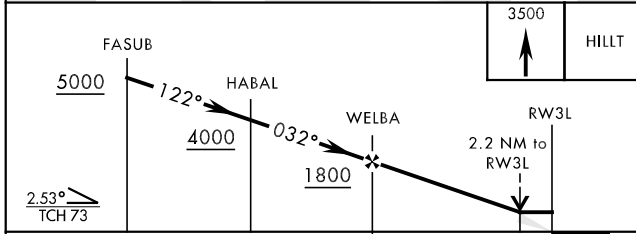
* Circling not authorized NW of Rwy 3L-21R.
DME/DME RNP-0.3 NA

MISSED APPROACH: Climbing straight ahead to 3500 direct HILLT and hold.

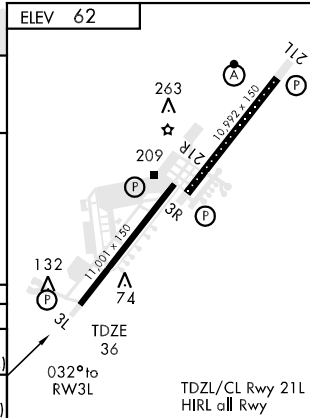
ATIS	TRAVIS APP CON	TRAVIS TOWER	GND CON	CLNC DEL
135.55 292.125	119.9 (S) 126.6 (N) 291.0	120.75 254.4	121.8 289.4	127.55 335.8



EMERG SAFE ALT 100 NM
12,600 FROM RW3L



CATEGORY	A	B	C	D	E
LNAV MDA	680/50	644 (700-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)	680-2¼ 644 (700-2¼)
CIRCLING *	680-1	618 (700-1)	680-1¾ 618 (700-1¾)	800-2¼ 738 (800-2¼)	1440-3 1378 (1400-3)



APCH CRS **212°** Rwy Idg **10,992**
 TDZE **58**
 Arpt Elev **62**

AL-488 [USAF]

TRAVIS AFB (KSUU)



* When ALS inop, increase CAT A RVR to 50 and vis to 1 mile,
 CAT B RVR to 60 and vis to 1 ¼ miles, CAT C vis to 2 ¼ miles,
 CAT D vis to 2 ½ miles, and CAT E vis to 2 ¾ miles.

ALS-2

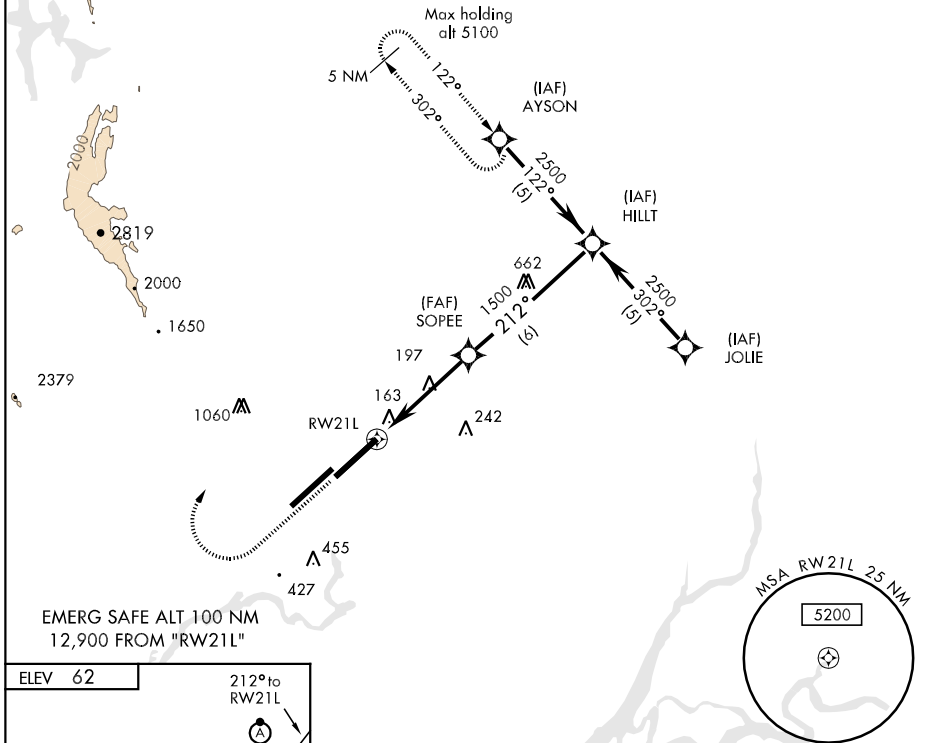


MISSED APPROACH: Climbing right
 turn to 4100 direct AYSON and hold.

ATIS	TRAVIS APP CON	TRAVIS TOWER	GND CON	CLNC DEL
135.55 292.125	119.9 (S) 126.6 (N) 291.0	120.75 254.4	121.8 289.4	127.55 335.8

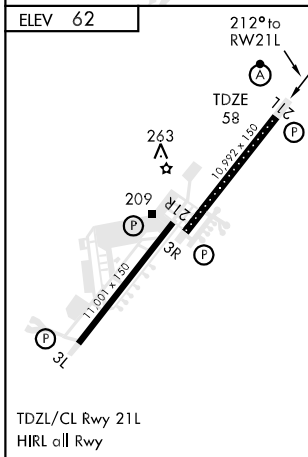
** Circling not authorized NW of Rwy 3L-21R.

DME/DME RNP-0.3 NA

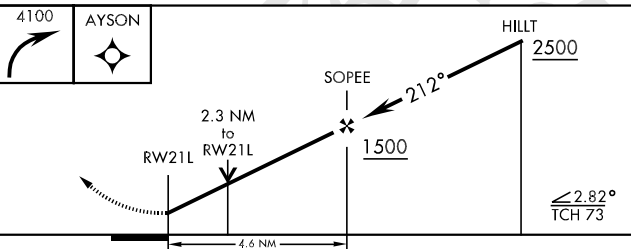


EMERG SAFE ALT 100 NM
 12,900 FROM "RW21L"

ELEV 62



TDZL/CL Rwy 21L
 HIRL all Rwy



CATEGORY	A	B	C	D	E
LNAV MDA *	800/24 742 (800-½)	800/40 742 (800-¾)	800-1¾ 742 (800-1¾)	800-2 742 (800-2)	800-2¼ 742 (800-2¼)
CIRCLING **	800-1 738 (800-1)	800-1¼ 738 (800-1¼)	800-2¼ 738 (800-2¼)	800-2½ 738 (800-2½)	1440-3 1378 (1400-3)

APCH CRS 212°	Rwy Idg TDZE Arpt Elev	11,001 53 62
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AL-488 [USAF]

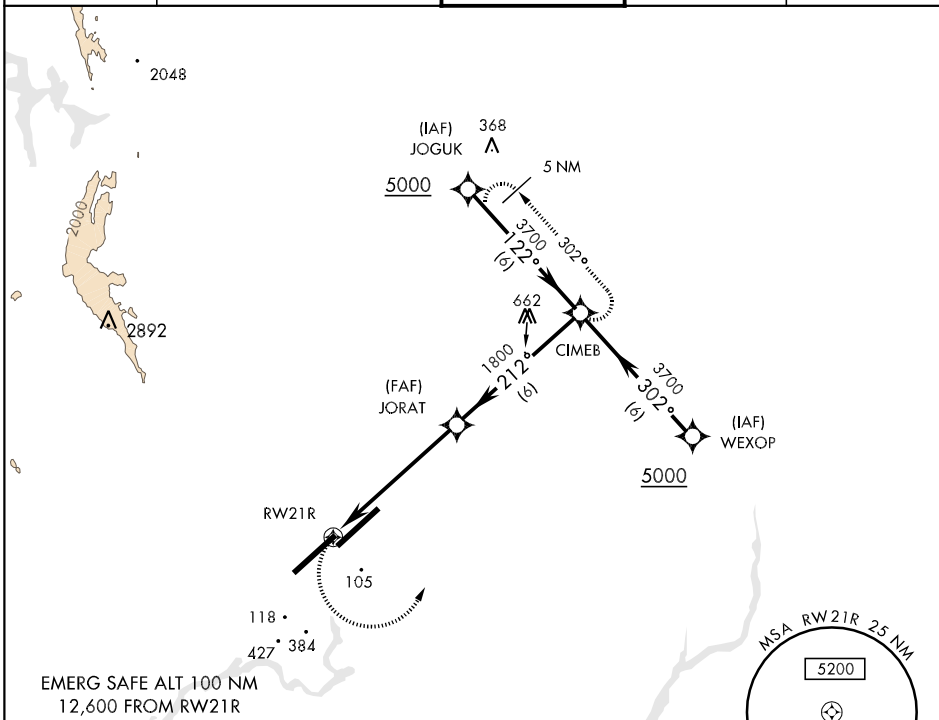
TRAVIS AFB (KSUU)

▼ * Circling not authorized NW of Rwy 3L-21R.

DME/DME RNP-0.3 NA

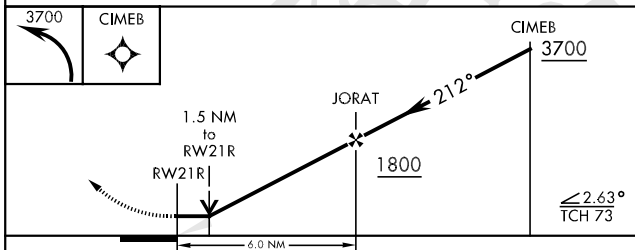
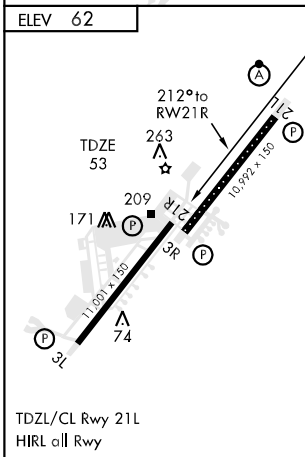
MISSED APPROACH: Climbing left turn to 3700
direct CIMEB and hold. Climb in holding
authorized.

ATIS	TRAVIS APP CON	TRAVIS TOWER	GND CON	CLNC DEL
135.55 292.125	119.9 (S) 126.6 (N) 291.0	120.75 254.4	121.8 289.4	127.55 335.8



EMERG SAFE ALT 100 NM
12,600 FROM RW21R

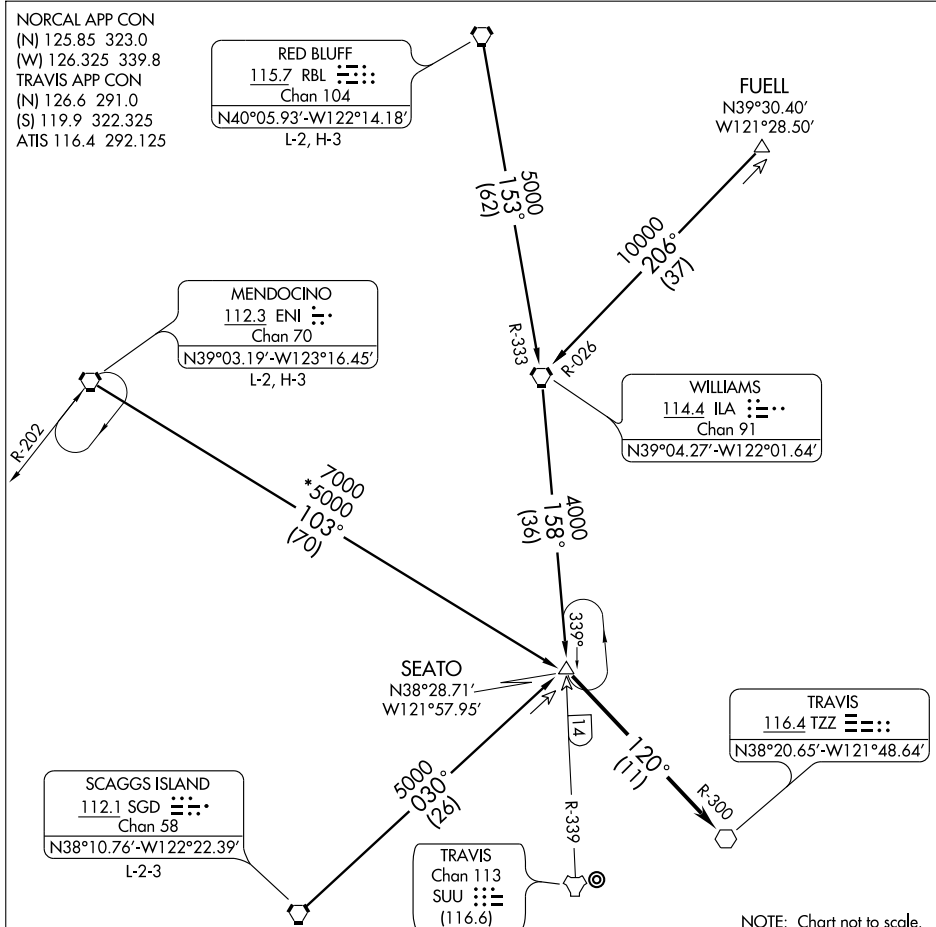
ELEV 62



CATEGORY	A	B	C	D	E
LNAV MDA	560/50	507 (500-1)	560-1½	507 (500-1½)	560-1¾ 507 (500-1¾)
CIRCLING *	560-1	498 (500-1)	560-1½ 498 (500-1½)	800-2¼ 738 (800-2¼)	1440-3 1378 (1400-3)

SEATO TWO ARRIVAL

ST-488 (FAA)

TRAVIS AFB
FAIRFIELD, CALIFORNIA

FUELL TRANSITION (FUELL, SEATO2): From over FUELL DME via ILA R-026 to ILA VORTAC then via ILA R-158 to SEATO INT. Thence . . .

MENDOCINO TRANSITION (ENI, SEATO2): From over ENI VORTAC via ENI R-103 to SEATO INT. Thence . . .

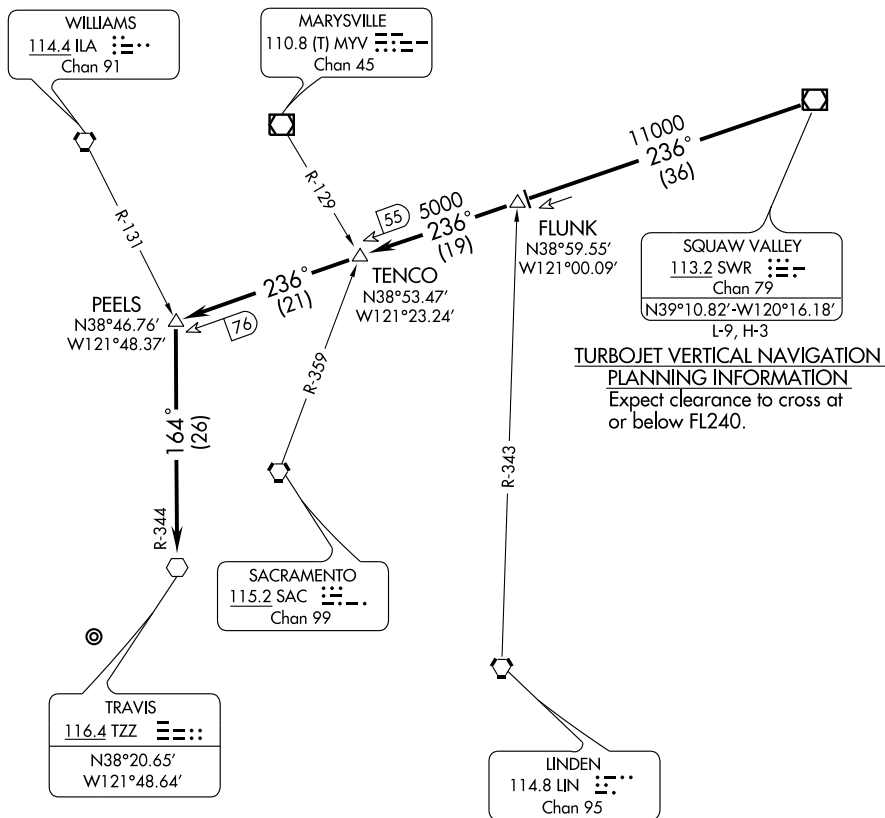
RED BLUFF TRANSITION (RBL, SEATO2): From over RBL VORTAC via RBL R-153 and ILA R-333 to ILA VORTAC then via ILA R-158 to SEATO INT. Thence . . .

SCAGGS ISLAND TRANSITION (SGD, SEATO2): From over SGD VORTAC via SGD R-030 to SEATO INT. Thence . . .

. . . . From over SEATO INT via TZZ R-300 to TZZ VOR. Expect vectors for VOR or ILS Rwy 21L approach. For Rwy 3L/R expect vectors for VOR or ILS 3L approach.

LOST COMMUNICATIONS: For Rwy 3L/R execute VOR or ILS Rwy 21L approach, circle to land Rwy 3L.

NORCAL APP CON
120.45 353.7
TRAVIS APP CON
(N) 126.6 395.8
(S) 119.9 322.325
ATIS 116.4 292.125



NOTE: Chart not to scale.

From over SWR VORTAC via SWR R-236 to PEELS INT, then via TZZ R-344 to TZZ VOR. Expect VOR or ILS Rwy 21L Approach. For Rwy 3L/R: Expect vectors for VOR Rwy 3L Approach.

TACAN SUU Chan 113	APCH CRS 042°	Rwy Idg 11,001 TDZE 36 Arpt Elev 62
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AL-488 [USAF]

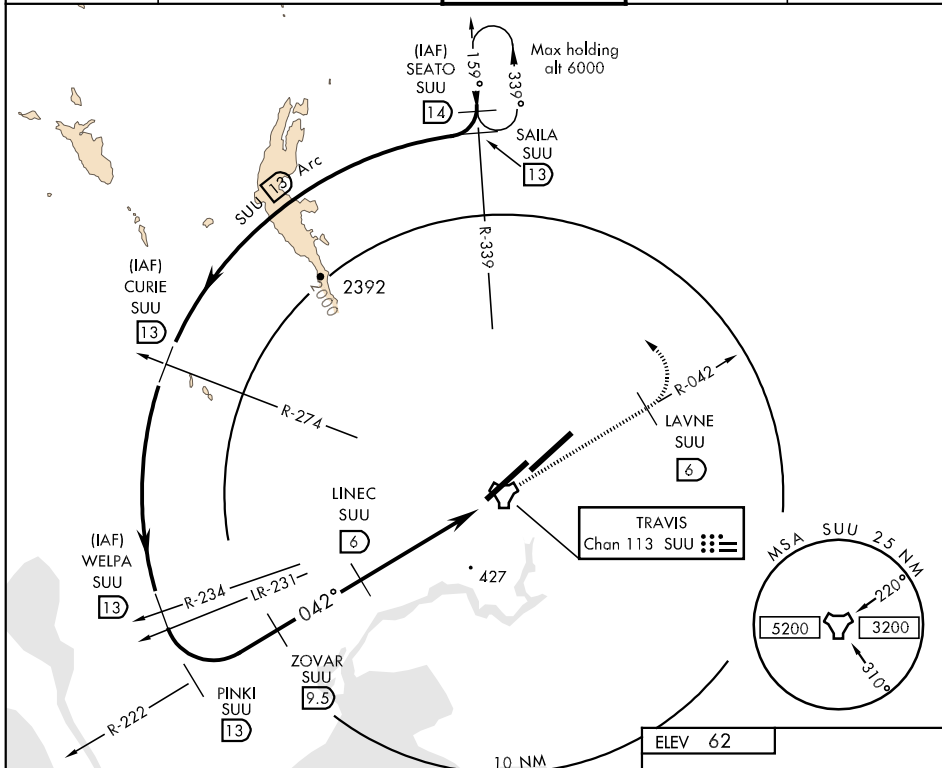
TRAVIS AFB (KSUU)



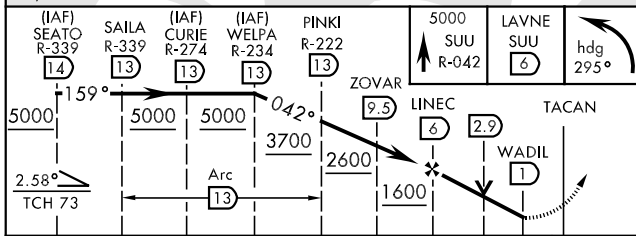
* Circling not authorized NW of Rwy 3L-21R.

MISSED APPROACH: Climb to 5000 via SUU TACAN R-042 to LAVNE, then turn left via 295° course to intercept SUU R-339 to SEATO and hold, continue climb in hold to 5000.

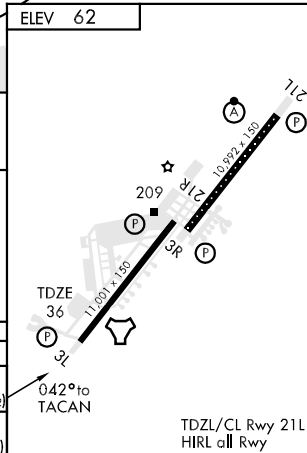
ATIS	TRAVIS APP CON			TRAVIS TOWER		GND CON		CLNC DEL	
135.55 292.125	119.9 (S)	126.6 (N)	291.0	120.75	254.4	121.8	289.4	127.55	335.8



EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN



CATEGORY	A	B	C	D	E
S-3L	740/50 704 (700-1)		740-2 704 (700-2)	740-2½ 704 (700-2½)	740-2½ 704 (700-2½)
CIRCLING *	740-1 678 (700-1)		740-2 678 (700-2)	800-2½ 738 (800-2½)	1440-3 1378(1400-3)



TACAN SUU Chan 113	APCH CRS 209°	Rwy Idg 10,992 TDZE 58 Arpt Elev 62
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AL-488 [USAF]

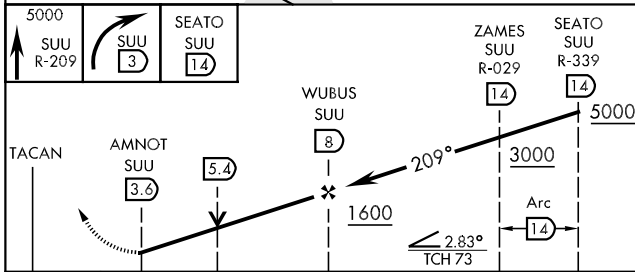
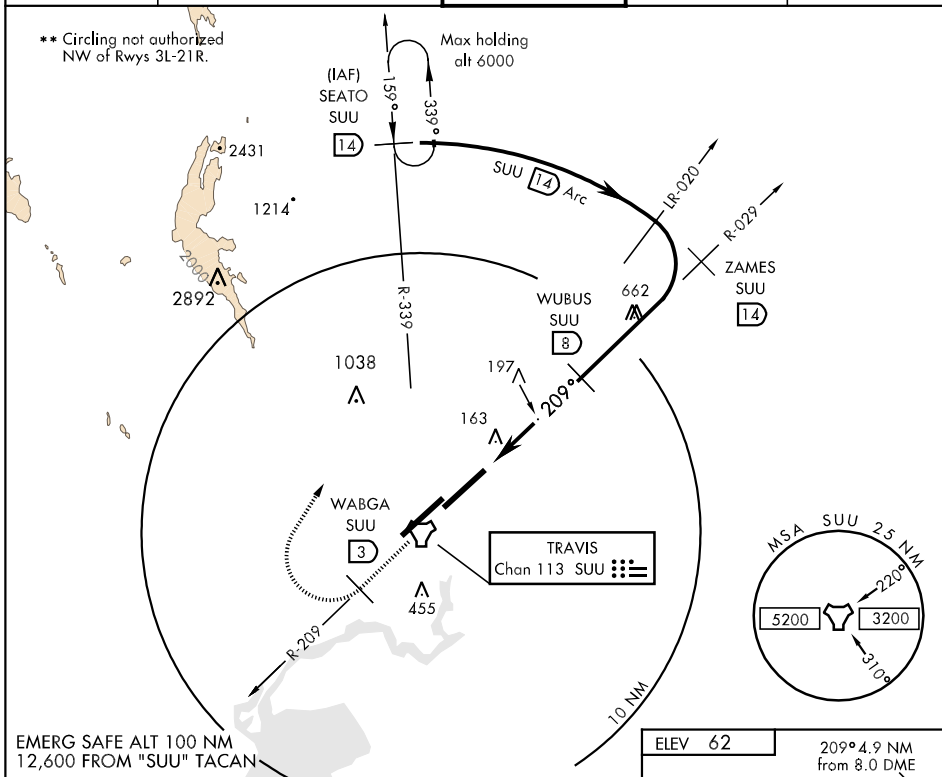
TRAVIS AFB (KSUU)

▼ When ALS inop, increase CAT A RVR to 50 and vis to 1 mile, CAT B RVR to 60 and vis to 1¼ miles, CAT C vis to 2¼ miles, CAT D vis to 2½ miles, and CAT E vis to 2¾ miles.

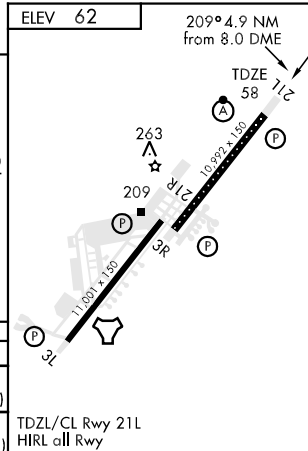


MISSED APPROACH: Climb to 5000 via SUU TACAN R-209 to WABGA, then turn right hdg 015° to intercept SUU R-339 to SEATO and hold, continue climb in hold to 5000.

ATIS 135.55 292.125	TRAVIS APP CON 119.9 (S) 126.6 (N) 291.0	TRAVIS TOWER 120.75 254.4	GND CON 121.8 289.4	CLNC DEL 127.55 335.8
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CATEGORY	A	B	C	D	E
S-21L *	800/24 742 (800-½)	800/40 742 (800-¾)	800-1¾ 742 (800-1¾)	800-2 742 (800-2)	800-2 ¼ 742 (800-2¼)
CIRCLING**	800-1 738 (800-1)	800-1¼ 738 (800-1¼)	800-2¼ 738 (800-2¼)	800-2½ 738 (800-2½)	1440-3 1378 (1400-3)



TACAN Chan 113	SUU 202°	APCH CRS 202°	Rwy Idg 11,001 TDZE 53 Arpt Elev 62
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AL-488 [USAF]

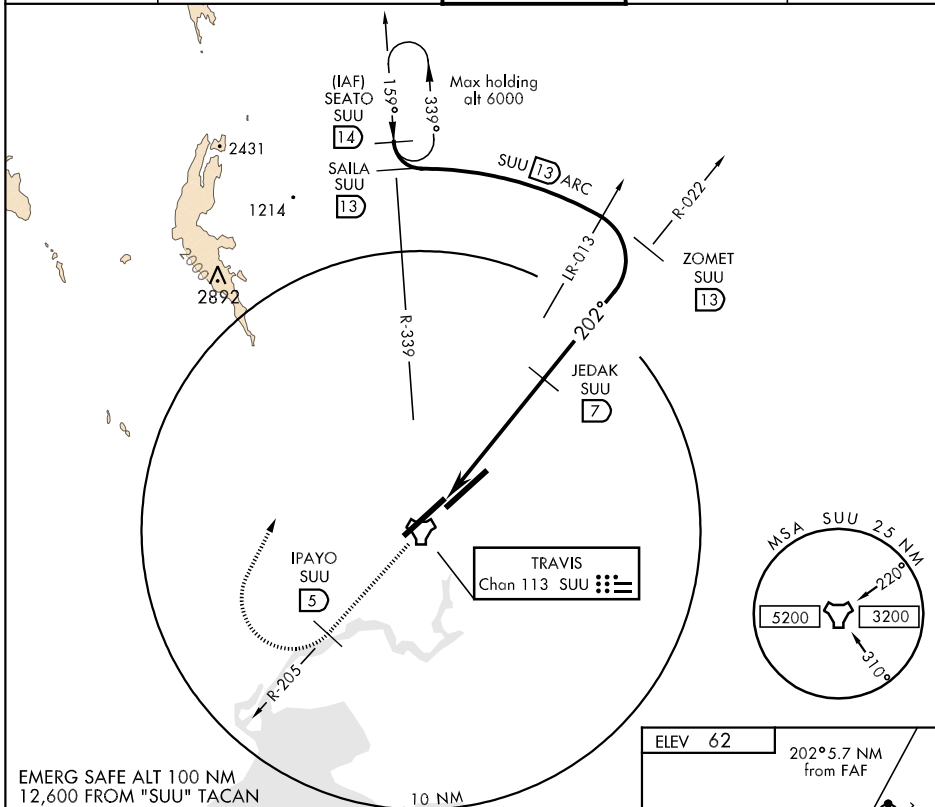
TRAVIS AFB (KSUU)



* Circling not authorized NW of Rwy 3L-21R.

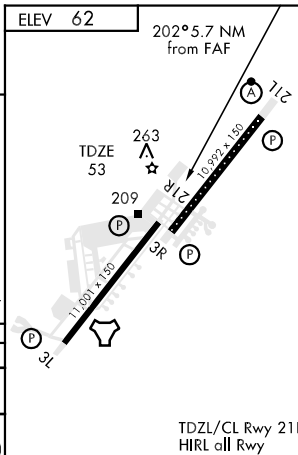
MISSED APPROACH: Climb to 5000 via SUU TACAN R-205 to IPAYO, then turn right via 010° course to intercept SUU R-339 to SEATO and hold, continue climb in hold to 5000.

ATIS 135.55 292.125	TRAVIS APP CON 119.9 (S) 126.6 (N) 291.0	TRAVIS TOWER 120.75 254.4	GND CON 121.8 289.4	CLNC DEL 127.55 335.8
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EMERG SAFE ALT 100 NM
12,600 FROM "SUU" TACAN

5000 SUU R-205	SUU 5	SEATO SUU 14	ZOMET 13	SAILA 13	SEATO 14	5000
TACAN	YOGIE 3.2	JEDAK 7	202°	3700	159°	5000
	1.4	1800	Arc 13	2.78°	TCH 73	
	.1	5.6 NM				
CATEGORY	A	B	C	D	E	
S-21R	680/50	627 (700-1)	680-1¾ 627 (700-1¾)	680-2 627 (700-2)	680-2¼ 627 (700-2¼)	
CIRCLING *	680-1	618 (700-1)	680-1¾ 618 (700-1¾)	800-2¼ 738 (800-2¼)	1440-3 1378 (1400-3)	



APP CRS 181°	Rwy Idg TDZE Apt Elev	2160 708 708
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GPS RWY 18

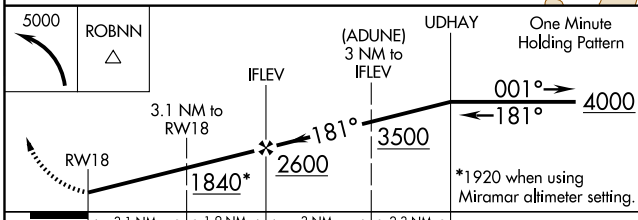
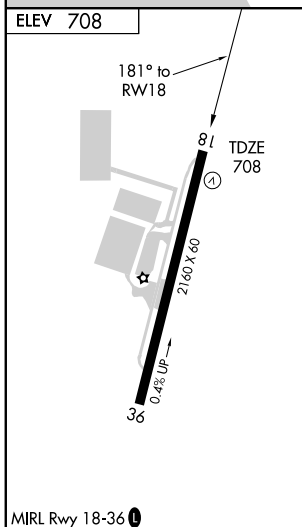
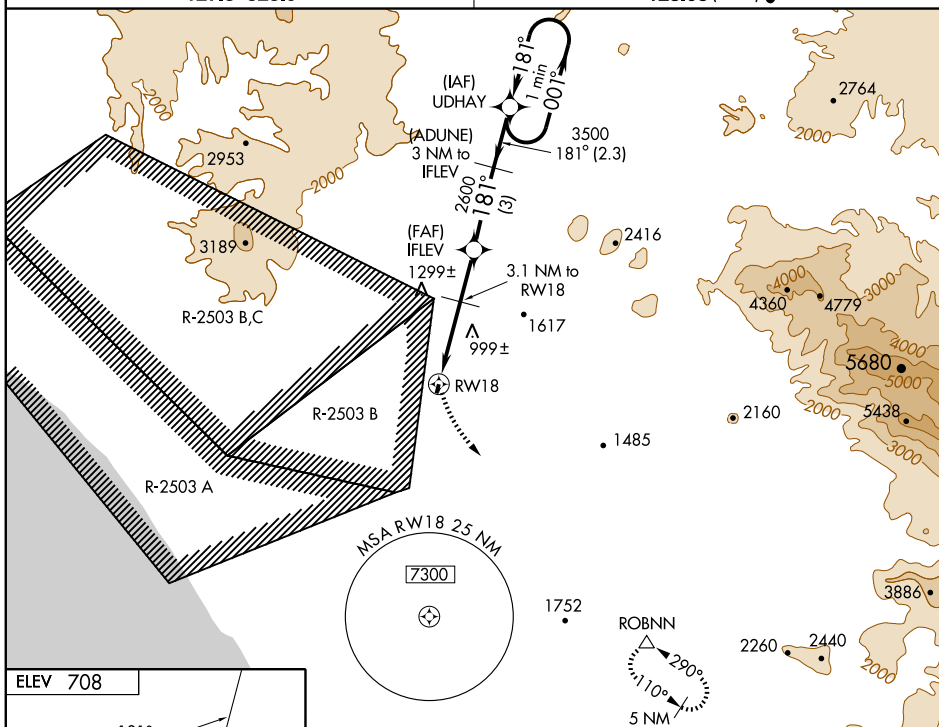
FALLBROOK COMMUNITY AIRPARK (L18)

T	Circling not authorized west of Rwy 18-36.
A NA	Obtain local altimeter setting on CTAF; when not received, use MCAS Miramar altimeter setting minimums.

MISSED APPROACH: Climbing left turn to 5000 direct ROBNW WP and hold.

SOCAL APP CON
127.3 323.0

UN|COM
123.05 (CTAF) **L**

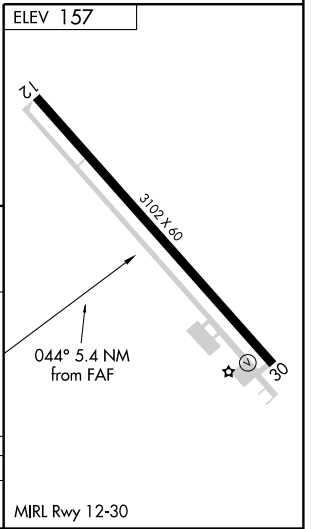
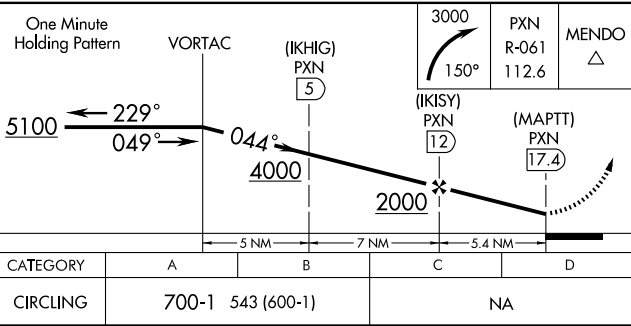
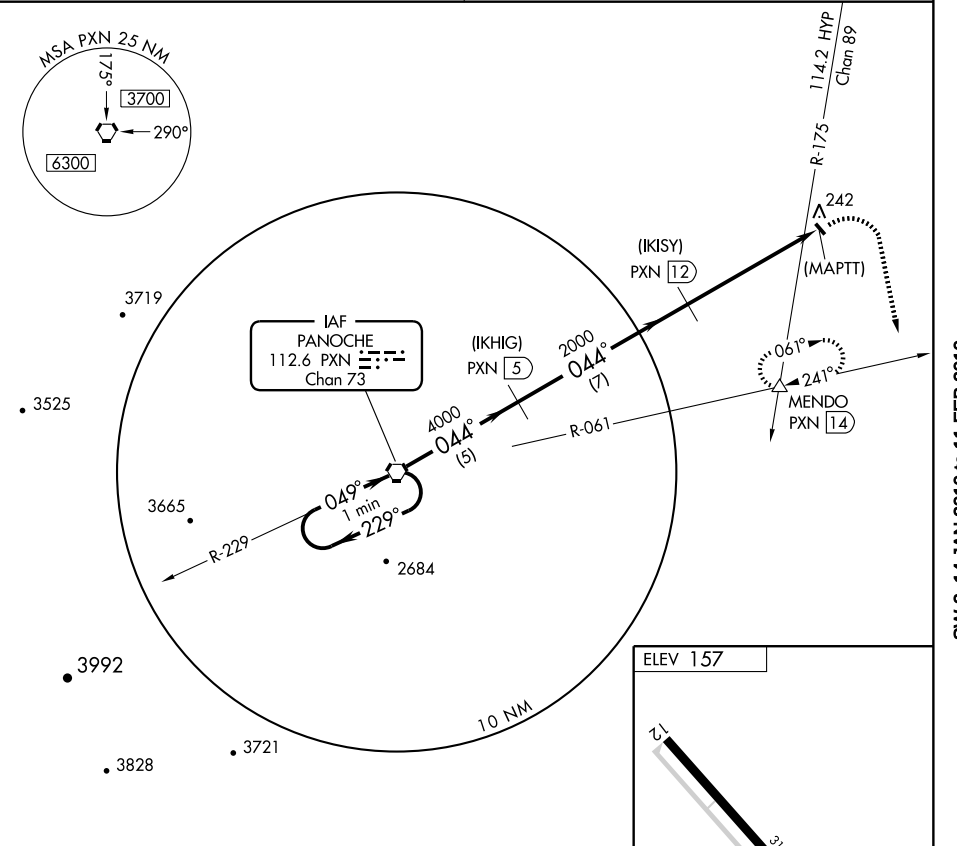


	3.1 NM	1.9 NM	3 NM	2.3 NM		
CATEGORY	A	B	C	D		
S-18	1260-1	552 (600-1)		NA		
CIRCLING	1260-1	552 (600-1)		NA		
MCAS MIRAMAR ALTITUDE SETTING MINIMUMS						
S-18	1360-1	652 (700-1)		NA		
CIRCLING	1360-1	652 (700-1)		NA		

VORTAC PXN 112.6 Chan 73	APP CRS 044°	Rwy Idg TDZE Apt Elev N/A N/A 157
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▼ ▲NA Use Madera alimeter setting.	MISSED APPROACH: Climbing right turn to 3000 via heading 150° and PXN R-061 to MENDO Int/PXN 14 DME and hold.
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NORCAL APP CON 120.95 269.45	CTAF 122.9
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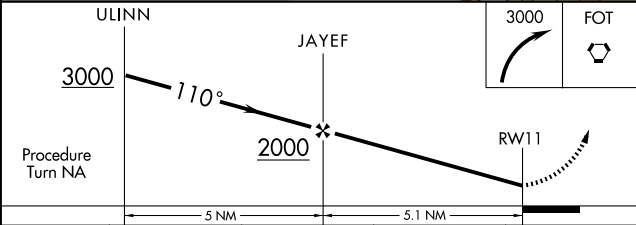
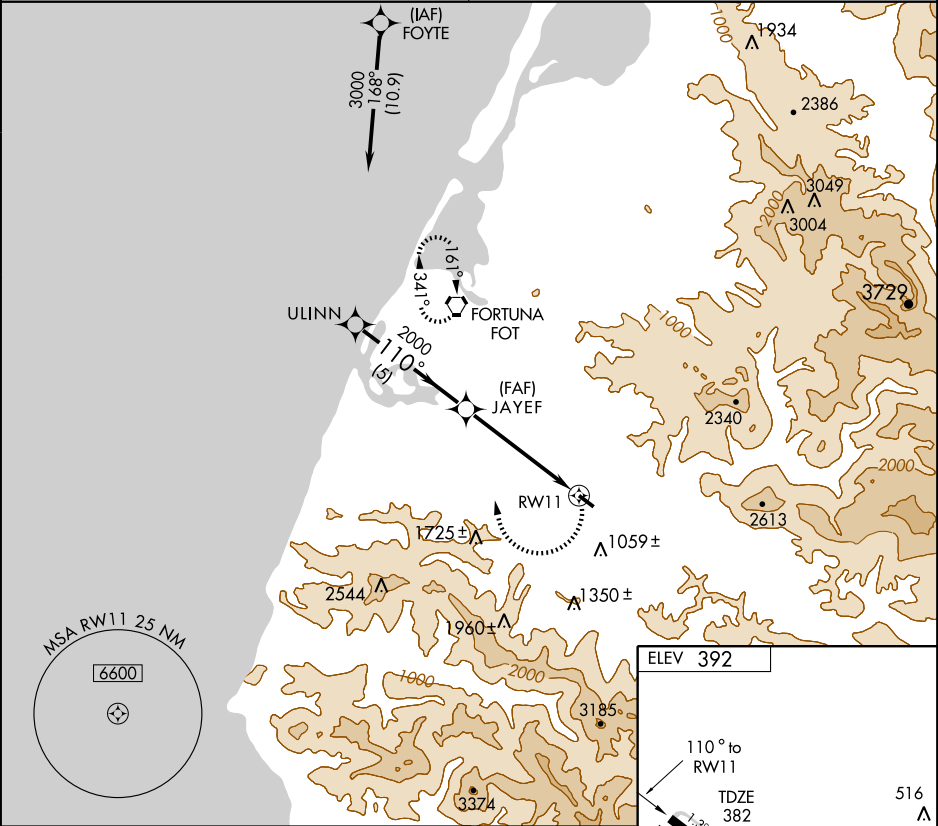
SW-2, 14 JAN 2010 to 11 FEB 2010

GPS RWY 11

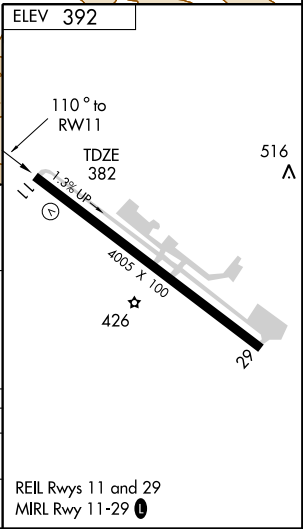
FORTUNA/ ROHNERVILLE (FOT)

APP CRS	Rwy Idg	4005
110°	TDZE	382
	Apt Elev	392

▼ ▲NA Use Arcata altimeter setting.	MISSED APPROACH: Climbing right turn to 3000 direct FOT VORTAC and hold.
SEATTLE CENTER 124.85 306.3	CTAF 122.90



CATEGORY	A	B	C	D
S-11	1140-1 758 (800-1)	1160-1 ¼ 778 (800-1 ¼)	1200-2 ½ 818 (900-2 ½)	1560-3 1178 (1200-3)
CIRCLING	1140-1 748 (800-1)	1160-1 ¼ 768 (800-1 ¼)	1320-2 ¾ 928 (1000-2 ¾)	1560-3 1168 (1200-3)



REIL Rwy 11 and 29
MIRL Rwy 11-29 0

▼

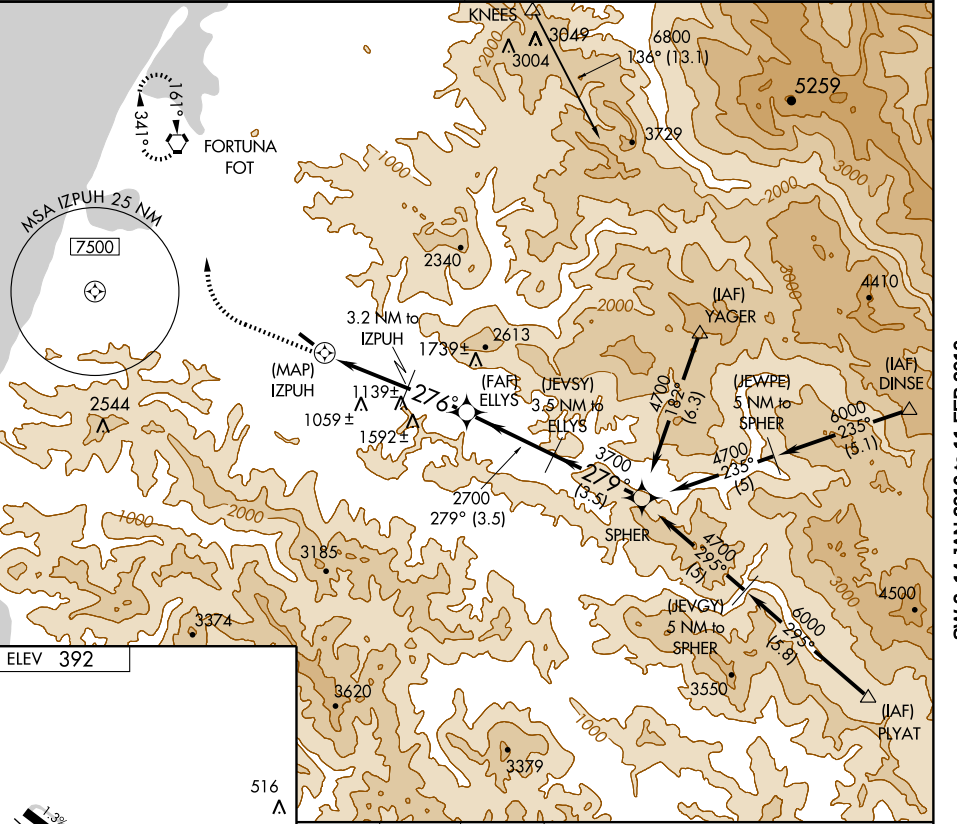
▲NA

Use Arcata altimeter setting.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct FOT VORTAC and hold.

SEATTLE CENTER
124.85 306.3

CTAF
122.9



1500

3000

FOT

IZPUH

ELLYS

(JEVSY)
3.5 NM to
ELLYS

SPHER

3.2 NM to IZPUH

276°

2700

279°

4700

Procedure Turn NA

0.5

3.2 NM

2.3 NM

3.5 NM

3.5 NM

CATEGORY	A	B	C	D
S-29	1160-1 768 (800-1)	1160-1½ 768 (800-1¼)	1160-2¼ 768 (800-2¼)	1160-2½ 768 (800-2½)
CIRCLING	1160-1 768 (800-1)	1160-1½ 768 (800-1¼)	1320-2¾ 928 (1000-2¾)	1460-3 1068 (1100-3)

REIL Rwy 11 and 29

MIRL Rwy 11-29

SW-2, 14 JAN 2010 to 11 FEB 2010

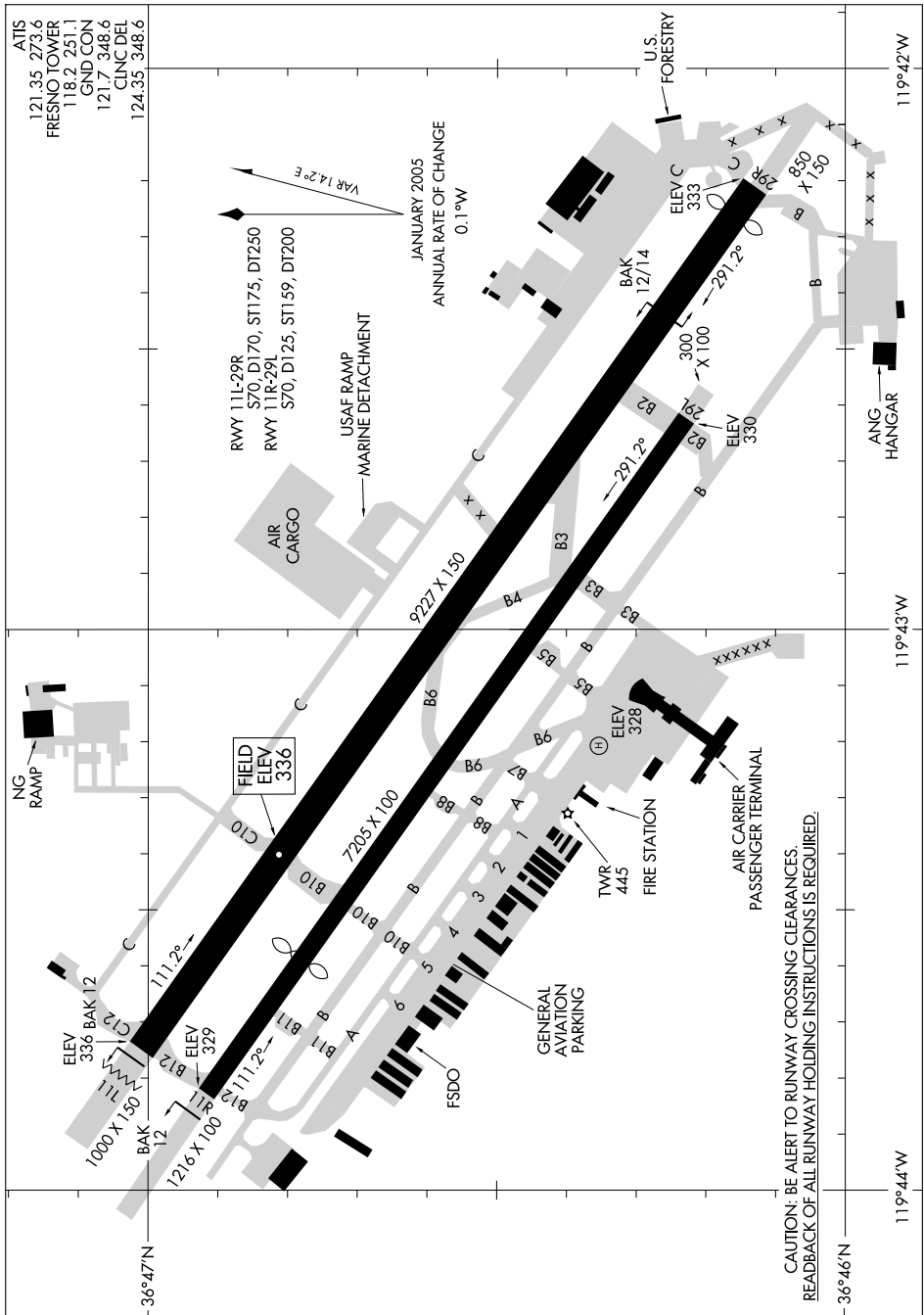
07351

FRESNO YOSEMITE INTL (FAT)

FRESNO, CALIFORNIA

AL-162 (FAA)

ATIS	
121.35	273.6
FRESNO TOWER	
118.2	251.1
GND CON	
121.7	348.6
CINC DEL	
124.35	348.6

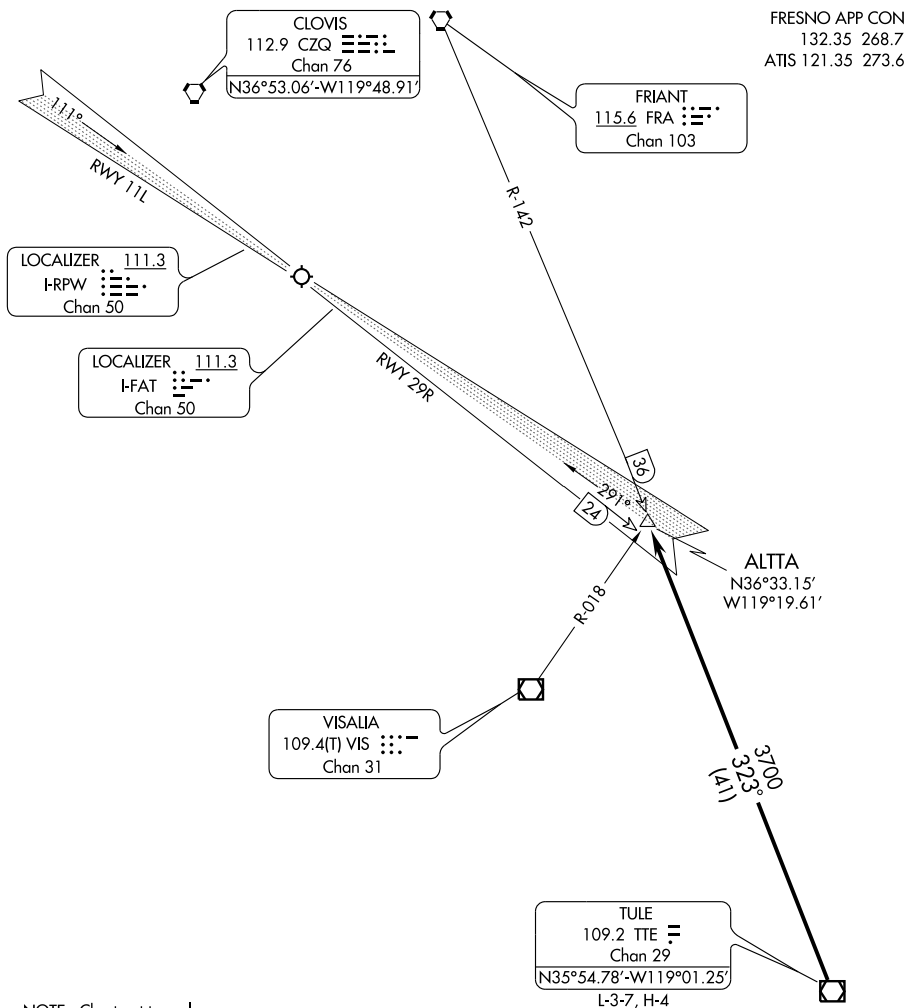


SW-2. 14 JAN 2010 to 11 FEB 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ALTA EIGHT ARRIVAL

ST-162 (FAA)

FRESNO YOSEMITE INTL
FRESNO, CALIFORNIA

From over TTE VOR/DME via TTE R-323 and FRA R-142 to ALTA DME fix. Expect ILS or LOC Rwy 29R approach. For Rwy 11L operations: Expect routing via CZQ VORTAC and radar vectors to Fresno Localizer Rwy 11L approach.

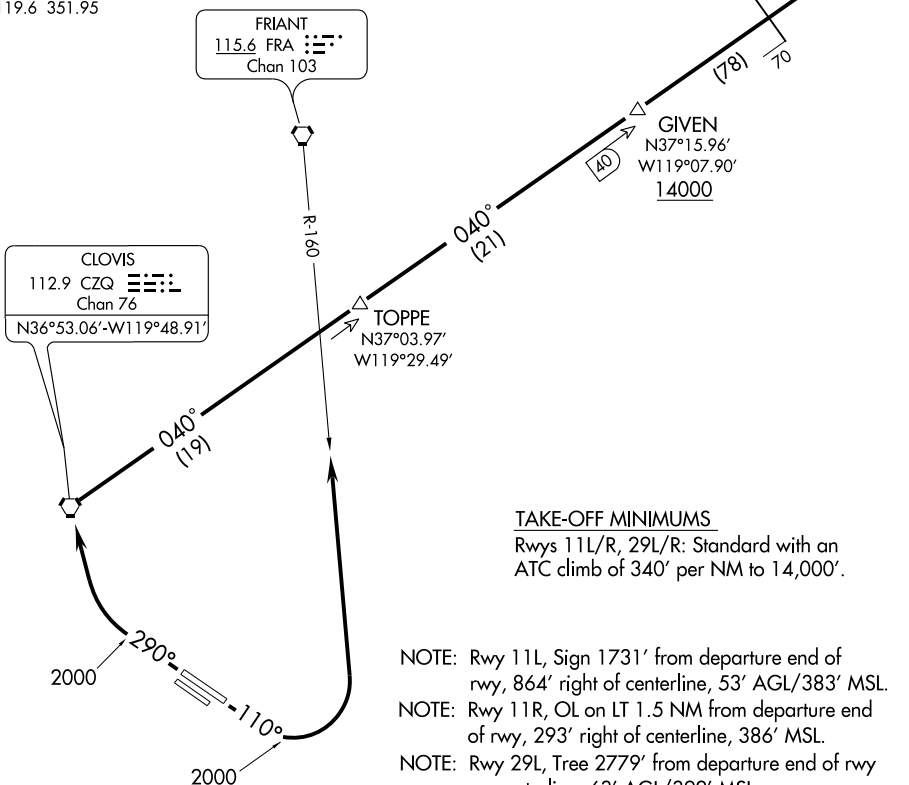
LOST COMMUNICATIONS: Rwy 11L: Execute VOR/DME or TACAN Rwy 11L approach.

COALDALE ONE DEPARTURE

SL-162 (FAA)

FRESNO YOSEMITE INTL (FAT)
FRESNO, CALIFORNIA

ATIS 121.35 273.6
CLNC DEL
124.35 348.6
GND CON
121.7 348.6
FRESNO TOWER
118.2 251.1
FRESNO DEP CON
119.6 351.95



NOTE: Chart not to scale.

TAKE-OFF MINIMUMS

Rwys 11L/R, 29L/R: Standard with an
ATC climb of 340' per NM to 14,000'.

NOTE: Rwy 11L, Sign 1731' from departure end of
rwy, 864' right of centerline, 53' AGL/383' MSL.

NOTE: Rwy 11R, OL on LT 1.5 NM from departure end
of rwy, 293' right of centerline, 386' MSL.

NOTE: Rwy 29L, Tree 2779' from departure end of rwy
on centerline, 63' AGL/392' MSL.

NOTE: Rwy 29R, Trees 1298' from departure end of
rwy, 775' right of centerline, 50' AGL/397' MSL.

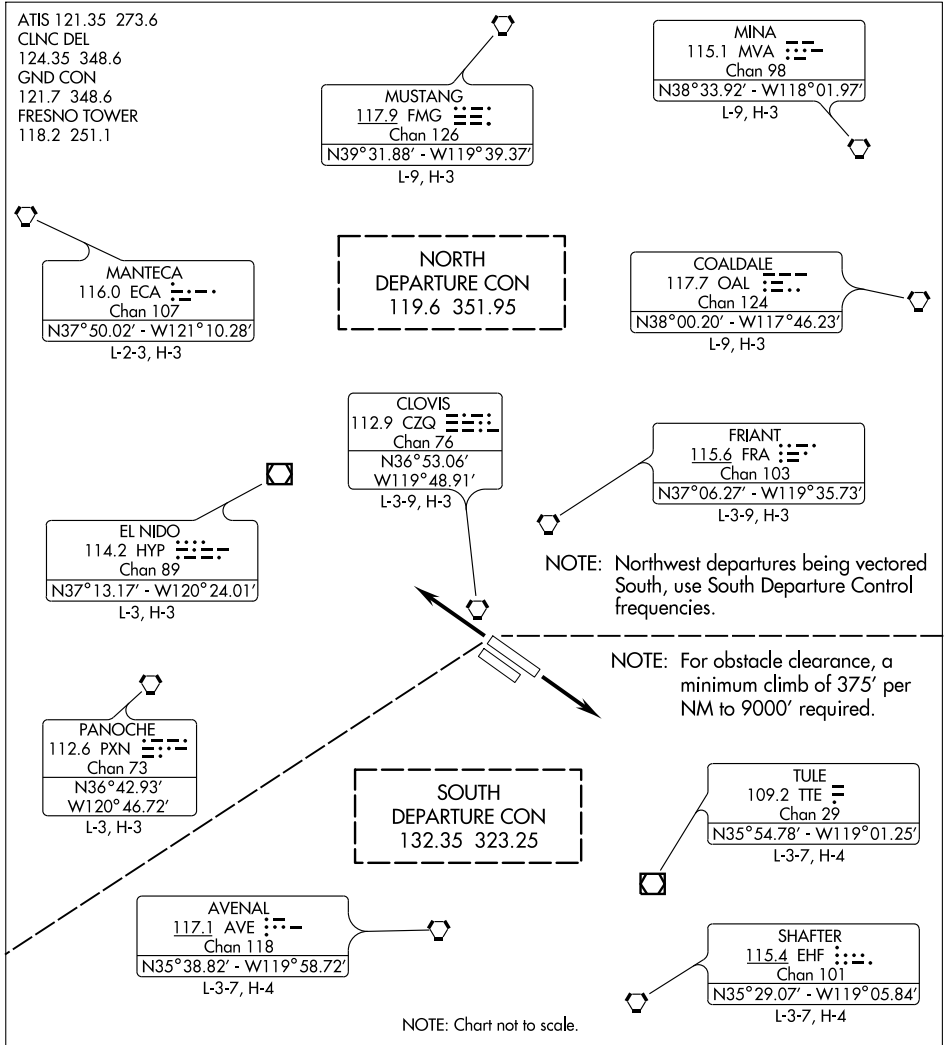
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11L/R: Climb via 110° heading to 2000', then climbing left turn
via FRA R-160 and CZQ R-040. Thence

TAKE-OFF RUNWAYS 29L/R: Climb via 290° heading to 2000', then climbing
right turn direct CZQ VORTAC. Thence

. . . . Intercept and proceed via CZQ R-040 and OAL R-219 to OAL VORTAC.
Cross GIVEN DME at or above 14000'. Expect clearance to filed altitude after
GIVEN DME.

FRESNO FIVE DEPARTURE



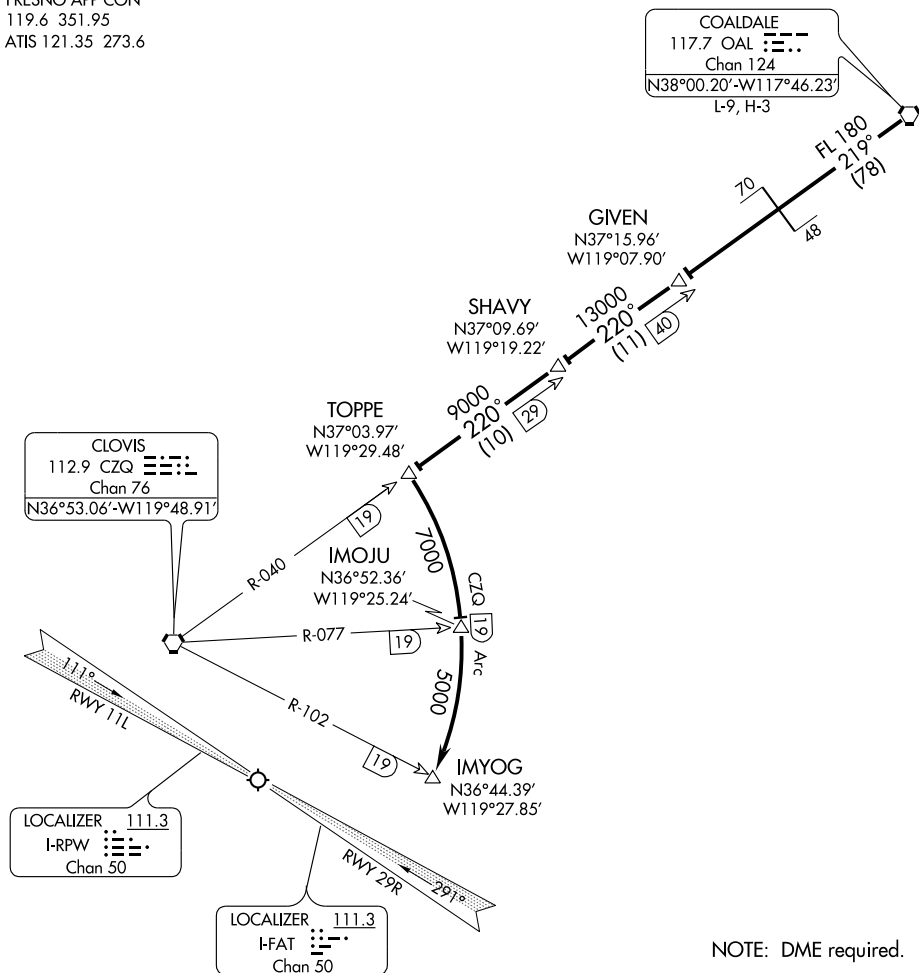
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11L/R AND 29L/R: Fly runway heading for vectors to assigned route/fix. Expect clearance to filed altitude five minutes after departure.

LOST COMMUNICATIONS: If no radio contact for two minutes, aircraft enroute to FRA, MVA, FMG and OAL proceed direct CZQ VORTAC, then direct FRA VORTAC, cross FRA VORTAC at or above 9000', thence via (assigned route) to filed altitude.

GIVEN SIX ARRIVAL

ST-162 (FAA)

FRESNO YOSEMITE INTL
FRESNO, CALIFORNIAFRESNO APP CON
119.6 351.95
ATIS 121.35 273.6

From over OAL VORTAC via OAL R-219 and CZQ R-040 to TOPPE DME fix, thence

. . . . **RWY 11L:** arrivals can expect radar vectors from TOPPE DME fix to FRESNO Rwy 11L localizer.

. . . . **RWY 29R:** south via CZQ 19 DME arc to IMYOG R-102/19 DME, then via radar vectors to intercept the FRESNO ILS Rwy 29R localizer course.

LOC/DME I-FAT 111.3 Chan 50	APCH CRS 291°	Rwy Idg 29R 8915 29L 7205 TDZE 29R 333 29L 330 Arprt Elev 336
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JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)

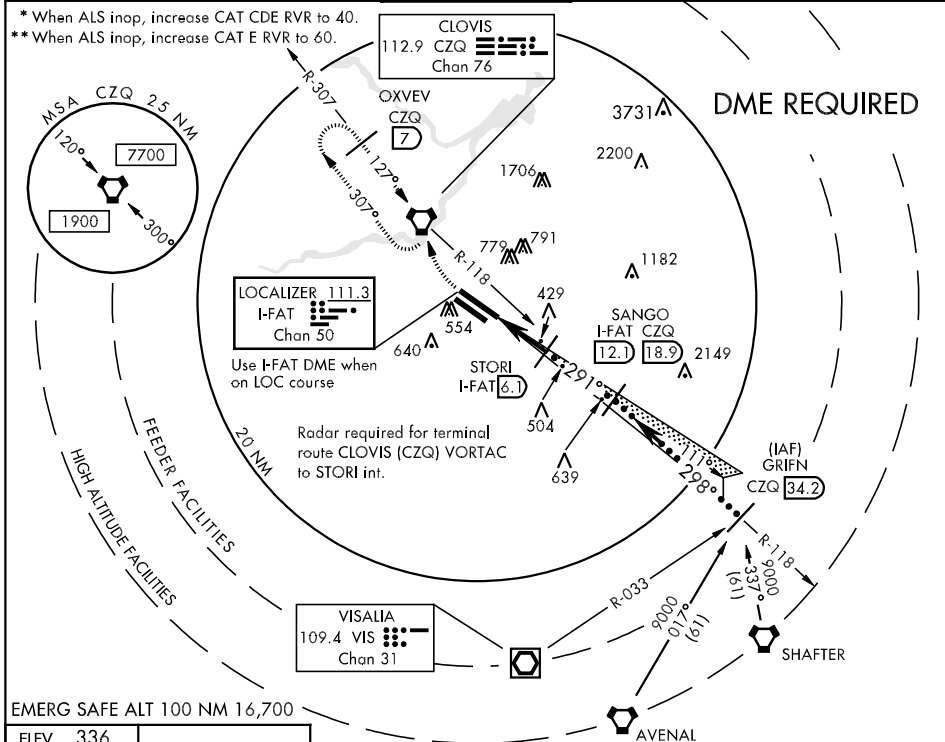
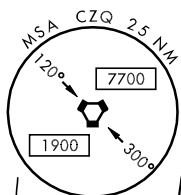


MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft continue climb to 3000 via CZQ R-307 to OXVEV/7 DME and hold northwest, right turns, 127° inbound).

ATIS 121.35 273.6	FRESNO APP CON 132.35 323.25	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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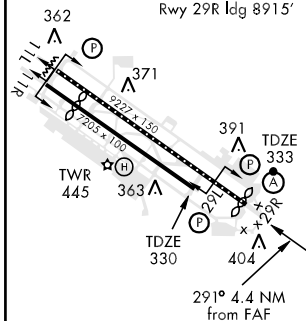
* When ALS inop, increase CAT CDE RVR to 40.

** When ALS inop, increase CAT E RVR to 60.

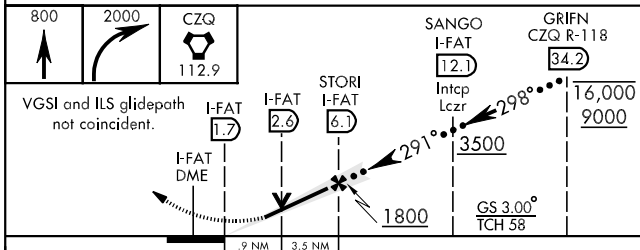


EMERG SAFE ALT 100 NM 16,700

ELEV 336	Rwy 11R Idg 5757'
342	Rwy 29R Idg 8915'



REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/CL Rwy 29R



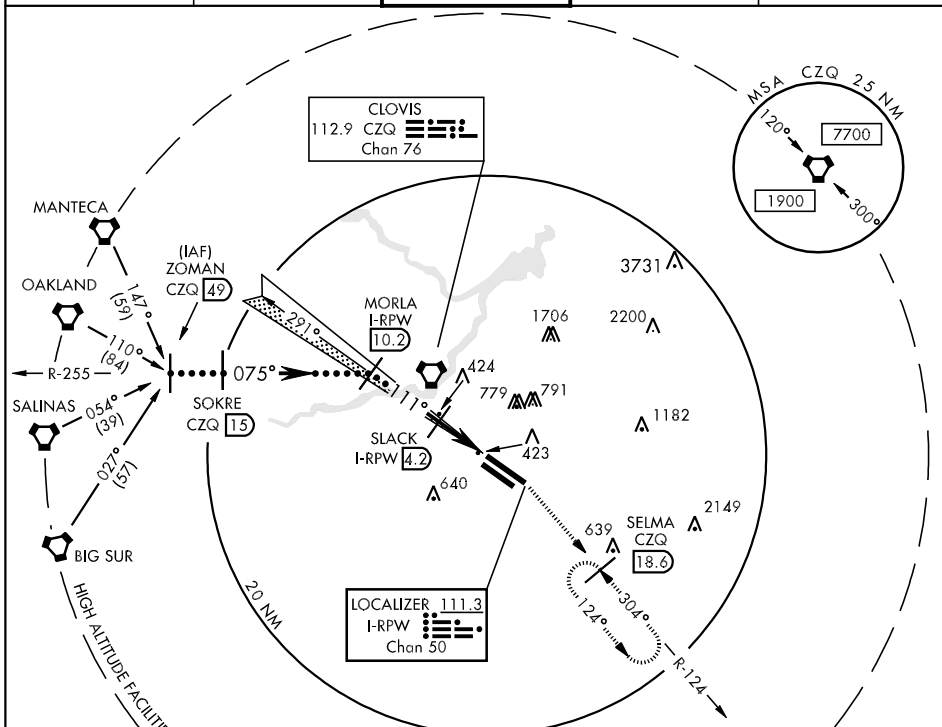
CATEGORY	C	D	E
S-ILS 29R *	533/18 200 (200- 3)	533/24 200 (200- 3)	
S-LOC 29R**	680/24 347 (400- 3)	680/40 347 (400- 3)	
SIDE STEP RWY 29L	680-1½ 350 (400-1½)	680-2 350 (400-2)	
CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2) 1140-2¾ 804 (900-2¾)	

LOC/DME I-RPW 111.3 Chan 50	APCH CRS 111°	Rwy Idg TDZE Arpt Elev	11L 9227 11L 336 336	11R 5757 11R 333 333
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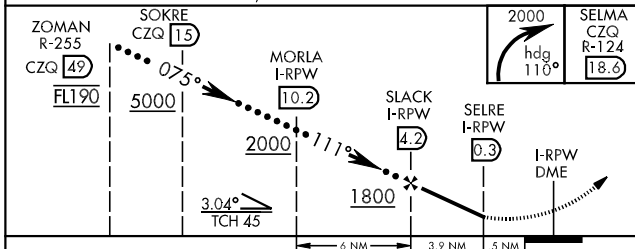
JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)

MISSED APPROACH: Climb to 2000 via heading 110° and CZQ R-124 to SELMA 18.6 DME and hold.

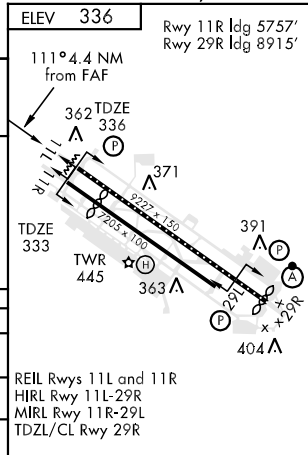
ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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EMERG SAFE ALT 100 NM 16,700



CATEGORY	C	D	E
S-11L	680/50 344 (400-1)	680/60 344 (400-1½)	
SIDE STEP RWY 11R	680-1½ 347 (400-1½)	680-2 347 (400-2)	
CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)



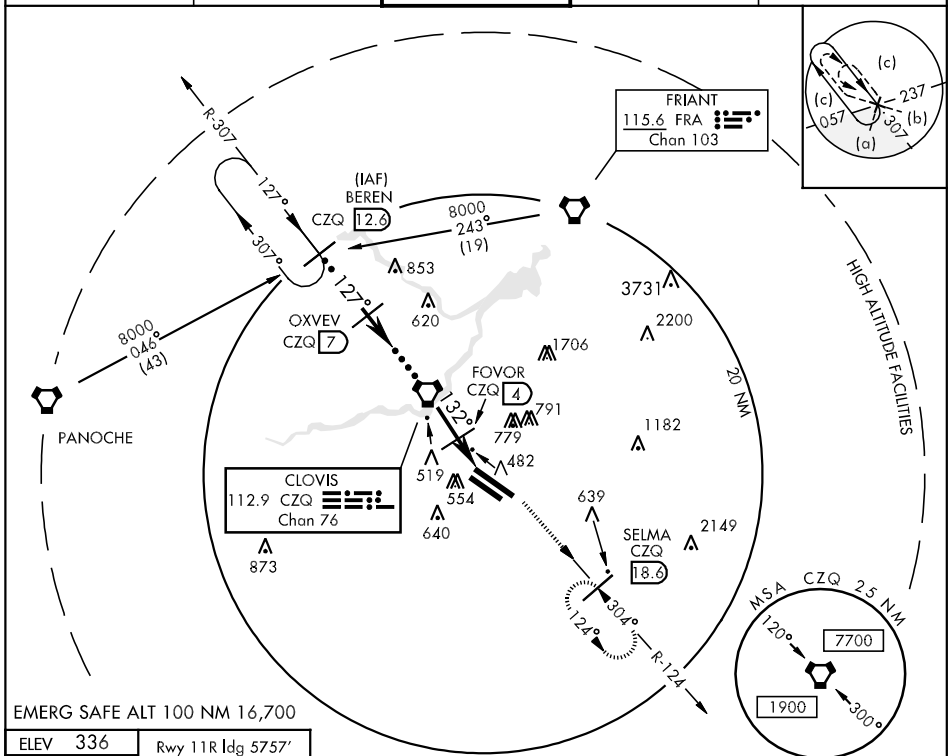
VORTAC CZQ 112.9 Chan 76	APCH CRS 132°	Rwy Idg 11L 9227 11R 5757 TDZE 11L 336 11R 333 Arpt Elev 336
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JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)



MISSED APPROACH: Climbing left turn to 2000 via CZQ R-124 to SELMA 18.6 DME and hold.

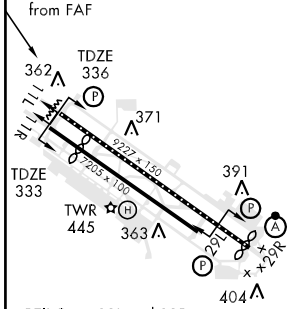
ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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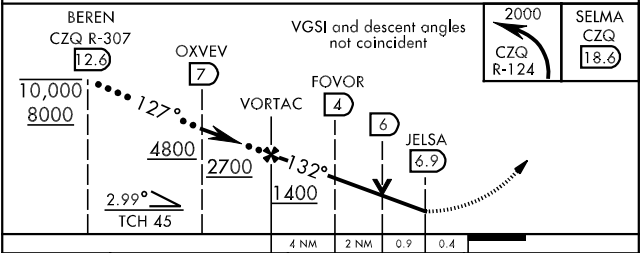
EMERG SAFE ALT 100 NM 16,700

ELEV 336	Rwy 11R Idg 5757'
	Rwy 29R Idg 8915'

132° 7.4 NM



REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZL/CL Rwy 29R



CATEGORY	C	D	E
S-11L	800-60 464 (500-1½)	800-1½ 464 (500-1½)	800-1¾ 464 (500-1¾)
SIDESTEP 11R	800-1½ 467 (500-1½)	800-2	467 (500-2)
CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

VORTAC CZQ 112.9 Chan 76	APCH CRS 306°	Rwy Idg 29R 8915 29L 7205 TDZE 29R 333 29L 330 Arpt Elev 336
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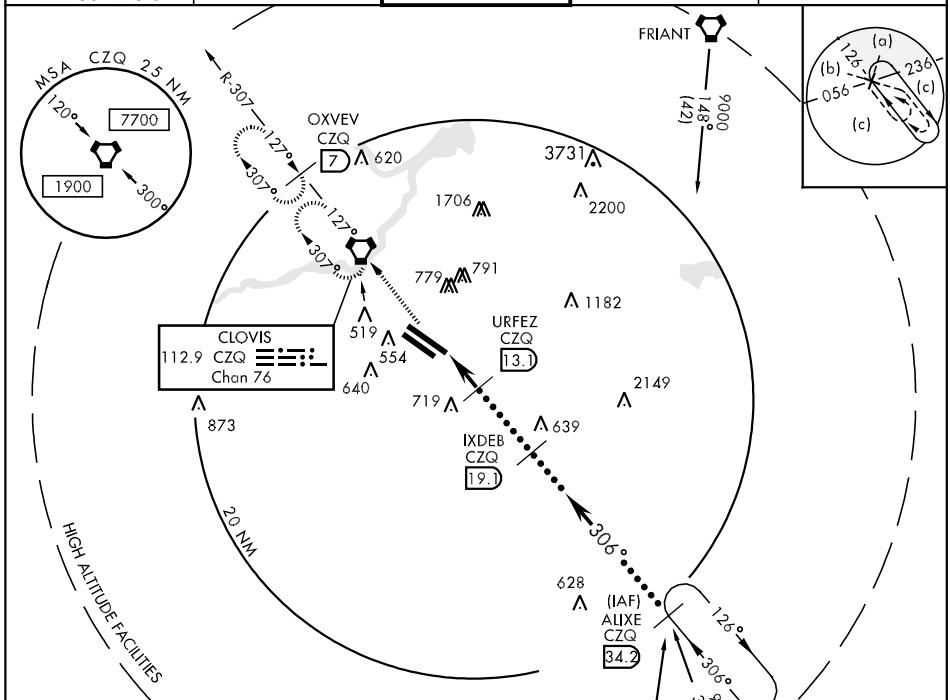
JAL-162 [USAF] FRESNO YOSEMITE INTL (KFAT)

T	* When ALS inop, increase CAT C RVR to 60, CAT DE vis to 1½.	ALSF-2
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ALSF-2

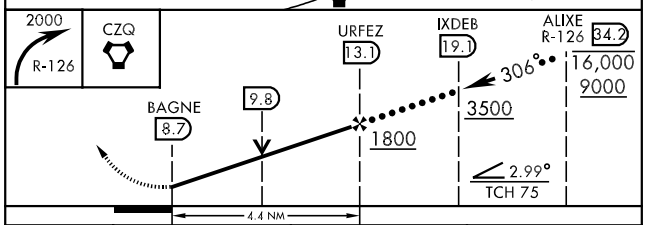
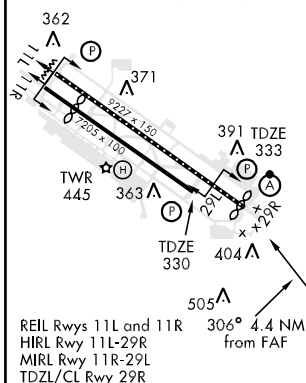
MISSED APPROACH: Climb to 2000 via CZQ VORTAC R-126 to CZQ VORTAC and hold. (TACAN acft continue climb to 3000 via CZQ R-307 to OXVEV 7 DME and hold NW, RT 127° inbound).

ATIS	FRESNO APP CON	FRESNO TOWER	GND CON	CLNC DEL
121.35 273.6	132.35 323.25	118.2 251.1	121.7 348.6	124.35 348.6



EMERG SAFE ALT 100 NM 16,700

ELEV 336	Rwy 11R Idg 5757' Rwy 29R Idg 8915'
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CATEGORY	C	D	E
S-29R*	760/40 427 (500-¾)	760/50	427 (500-1)
SIDESTEP 29L	760-1½ 430 (500-1½)	760-2	430 (500-2)
CIRCLING	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

▼

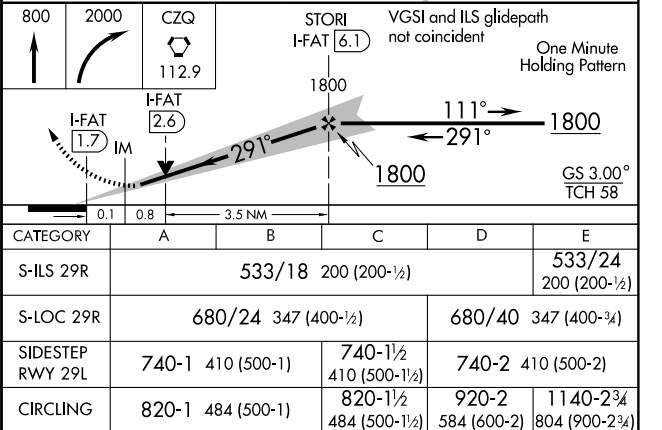
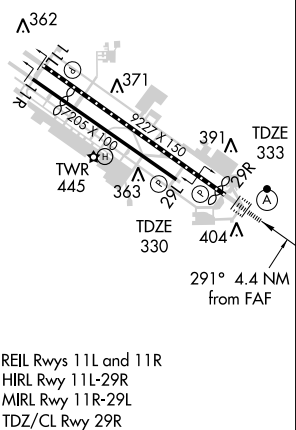
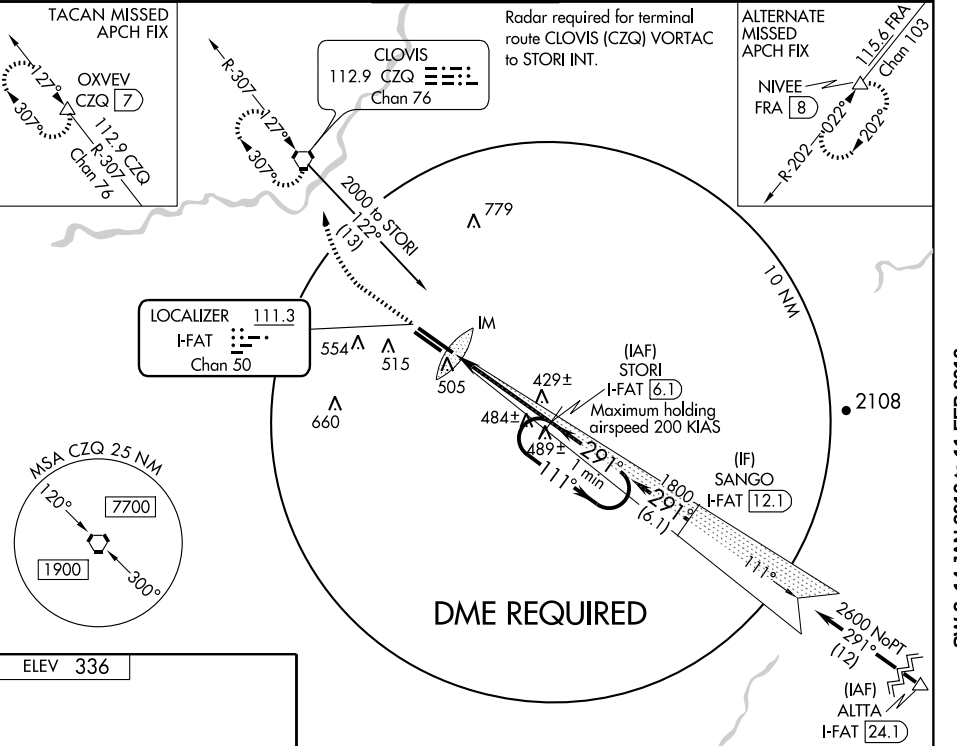
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For inoperative ALSF-2, increase S-ILS Cat E visibility to RVR 4000 and S-LOC Cat E visibility to RVR 6000. Hold in lieu of PT not authorized for Cat E aircraft.

ALSF-2
Rwy 29R

MISSED APPROACH: Climb to 800, then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft climb to 3000 via CZQ VORTAC R-307 to OXVEV/ CZQ 7 DME and hold NW, RT, 127° inbound.)

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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SW-2, 14 JAN 2010 to 11 FEB 2010

LOC/DME I-FAT
111.3
Chan **50**

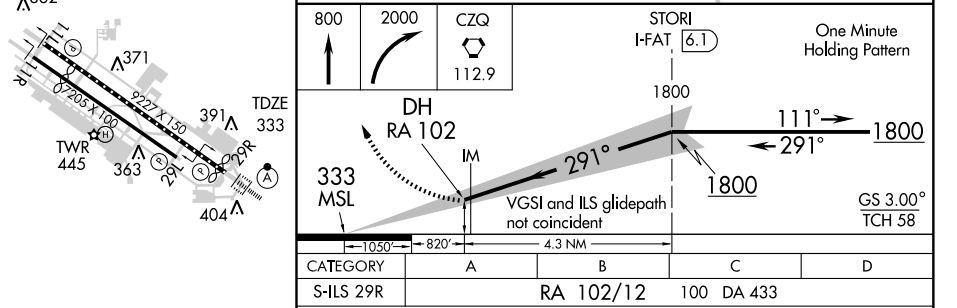
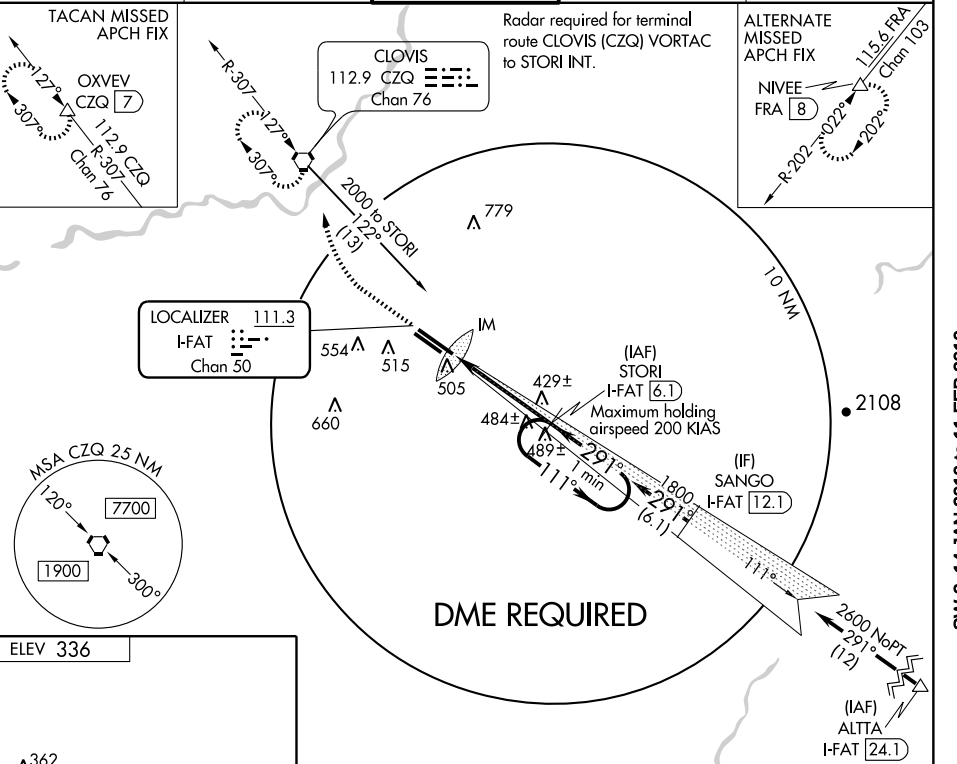
APP CRS
291°

Rwy Idg
TDZE
Apt Elev
3915
333
336

ALSF-2

MISSED APPROACH: Climb to 800, then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft climb to 3000 via CZQ VORTAC R-307 to OXVEV/CZQ 7 DME and hold NW, RT, 127° inbound.)

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R

**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

SW-2, 14 JAN 2010 to 11 FEB 2010

LOC/DME I-FAT
111.3
Chan **50**

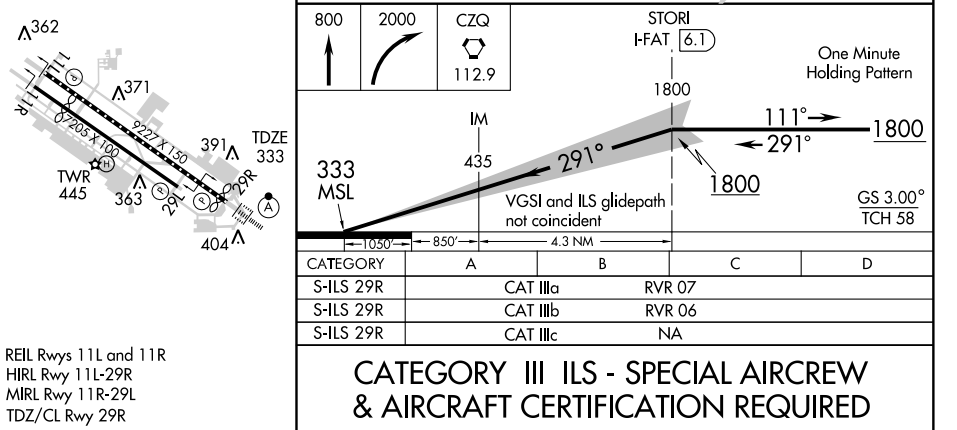
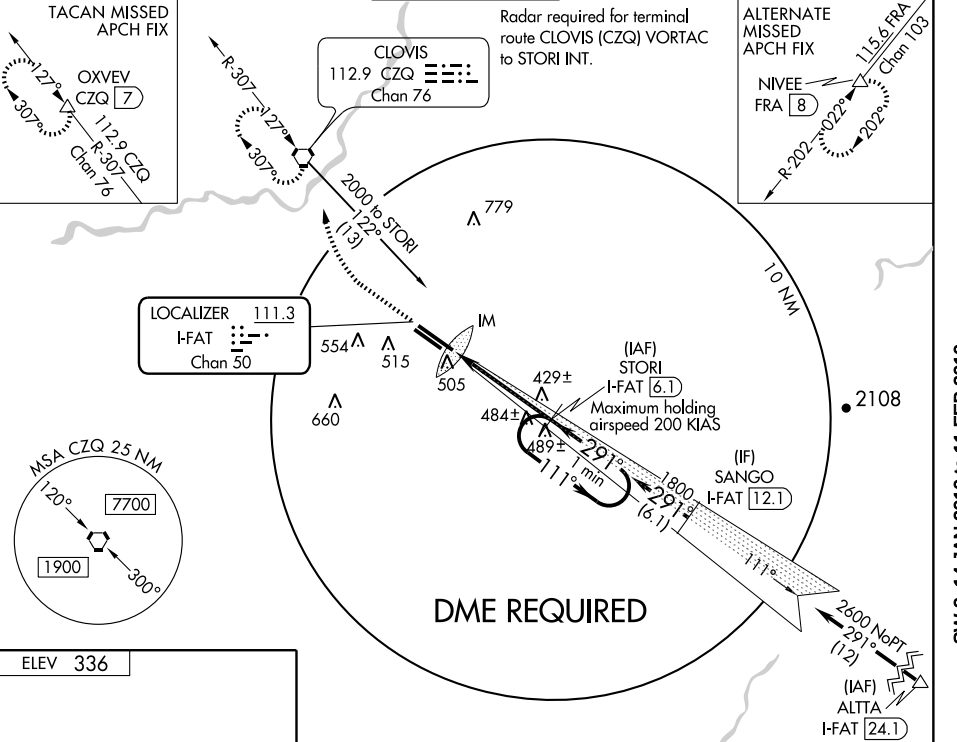
APP CRS
291°

Rwy Idg
TDZE
Apt Elev
8915
333
336

ALSIF-2

MISSED APPROACH: Climb to 800, then climbing right turn to 2000 direct CZQ VORTAC and hold. (TACAN aircraft climb to 3000 via CZQ VORTAC R-307 to OXVEV/CZQ 7 DME and hold NW, RT, 127° inbound.)

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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SW-2, 14 JAN 2010 to 11 FEB 2010

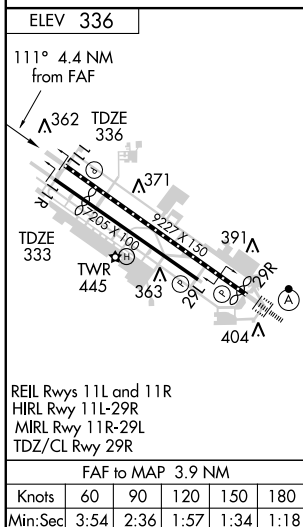
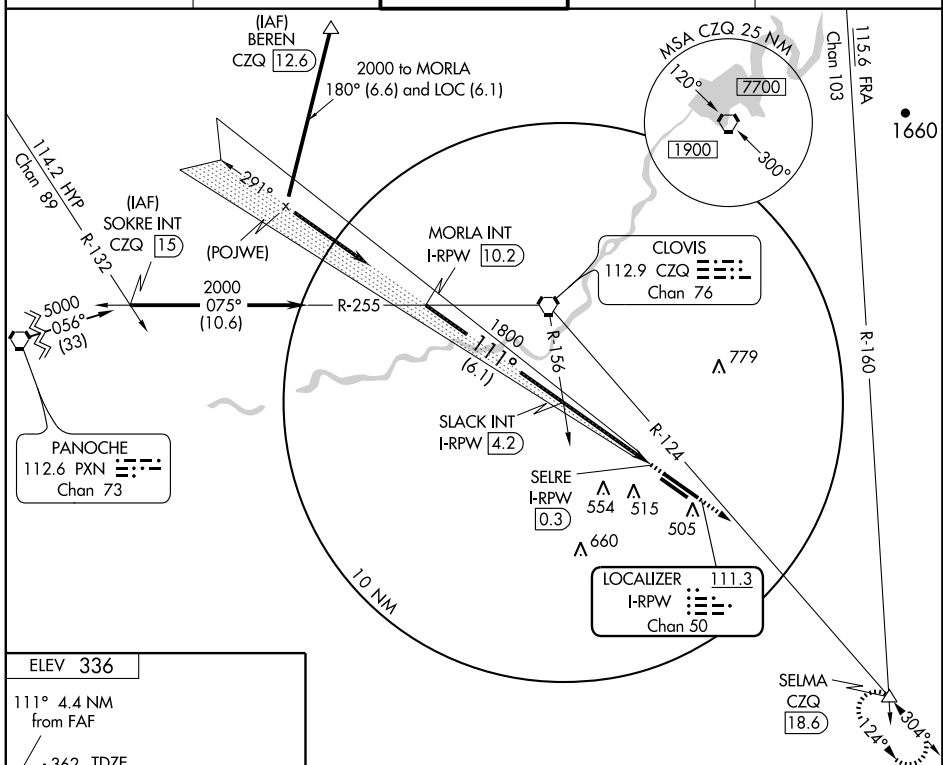
LOC/DME I-RPW 111.3 Chan 50	APP CRS 111°	Rwy 11L Idg 9227 TDZE 336 Apt Elev 336	Rwy 11R Idg 5757 TDZE 333 Apt Elev 336
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LOC RWY 11L

FRESNO YOSEMITE INTL (FAT)

MISSED APPROACH: Climb to 2000 via heading 111° and CZQ R-124 to SELMA and hold.	
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ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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	MORLA INT I-RPW 10.2	VGSI and descent angles not coincident.	2000	CZQ R-124 112.9	SELMA
	2000	SLACK INT I-RPW 4.2	SELRE I-RPW 0.3		
	Procedure Turn NA	3.04° TCH 45			
	6.1 NM	3.9 NM	0.5		
CATEGORY	A	B	C	D	E
S-11L	680/50	344 (400-1)		680/60	344 (400-1¼)
SIDESTEP 11R	680-1	347 (400-1)	680-1½ 347 (400-1½)	680-2	347 (400-2)
CIRCLING	820-1	484 (500-1)	820-1½ 484 (500-1½)	920-2	1140-2¾ 804 (900-2¾)

WAAS CH 77505 W11A	APP CRS 111°	Rwy Idg TDZE Apt Elev	9227 336 336
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RNAV (GPS) RWY 11L
FRESNO YOSEMITE INTL (FAT)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -15°C (5°F).

MISSED APPROACH: Climb to 2000 direct MUPRE and
via 125° track to SELMA and hold.

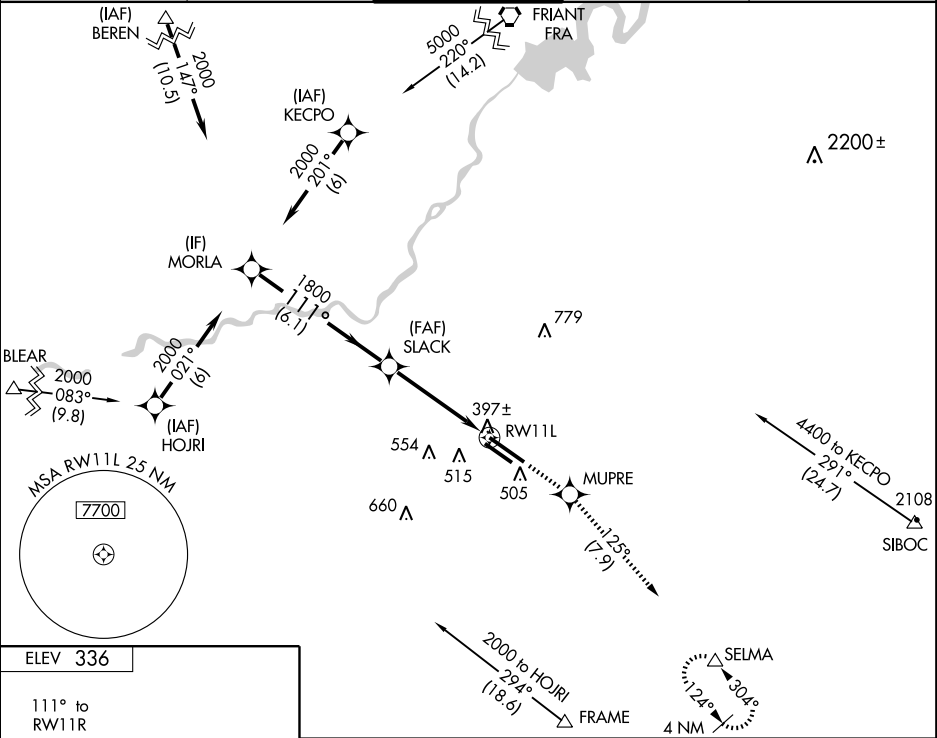
ATIS
121.35 273.6

FRESNO APP CON
119.6 351.95

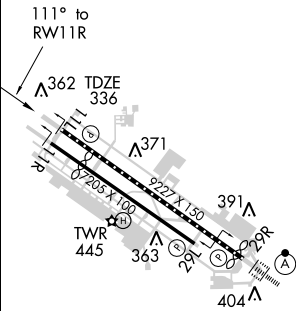
FRESNO TOWER
118.2 251.1

GND CON
121.7 348.6

CLNC DEL
124.35 348.6



ELEV 336



REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R

MORLA		2000	MUPRE	125° track	SELMA
VGSi and descent angles not coincident.					
Procedure Turn NA		SLACK	*1 NM to RWY 11L		* LNAV only
GS 3.00° TCH 45°		1800			
6.1 NM		3.4 NM	1 NM		
CATEGORY	A	B	C	D	
LPV DA	590/50		254 (300-1)		
LNAV/VNAV DA	760-1½		424 (500-1½)		
LNAV MDA	680/50		344 (400-1)		680/60 344 (400-1½)
CIRCLING	820-1		484 (500-1)		820-1½ 484 (500-1½)
					920-2 584 (600-2)

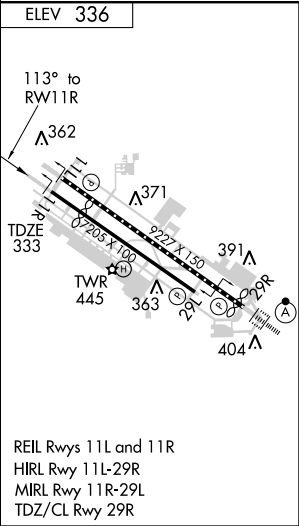
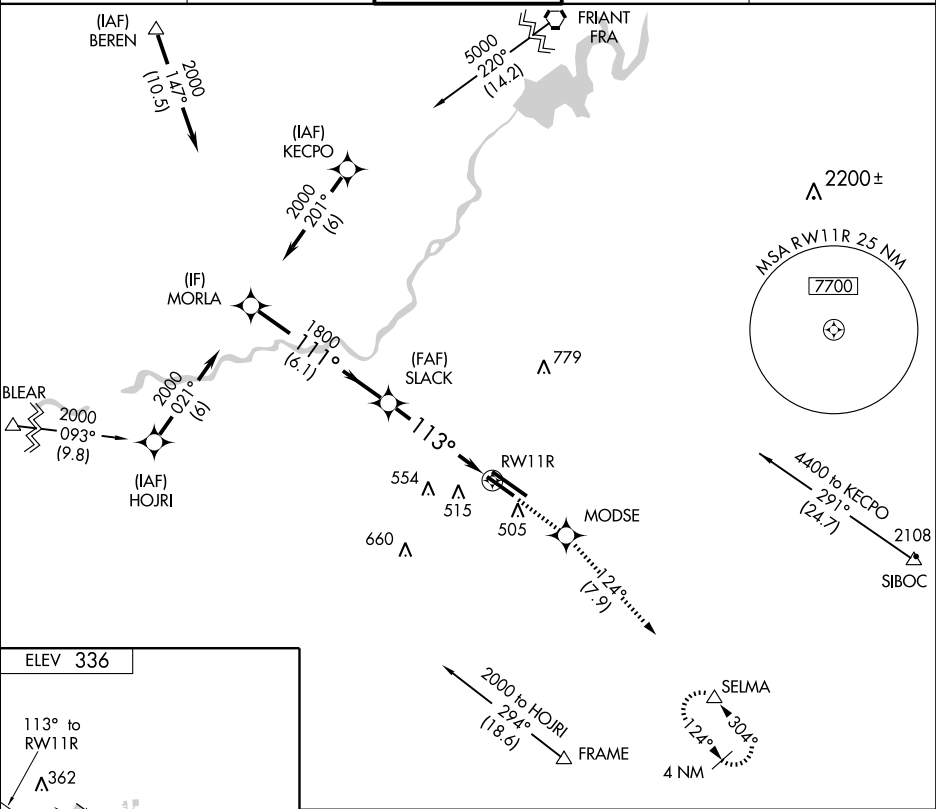
APP CRS	Rwy Idg	5757
113°	TDZE	333
	Apt Elev	336

RNAV (GPS) RWY 11R

FRESNO YOSEMITE INTL (FAT)

DME/DME RNP-0.3 NA. Straight-in minimums NA at night.	MISSED APPROACH: Climb to 2000 direct MODSE and via 124° track to SELMA and hold.
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ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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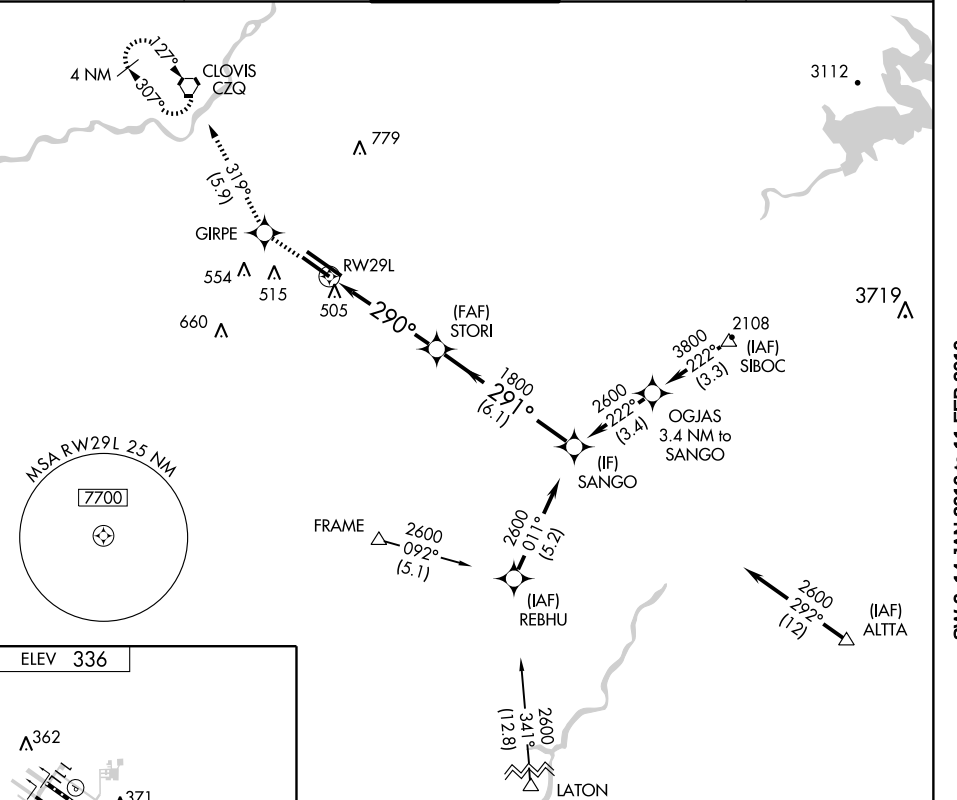


	MORLA	2000	MODSE	124° track	SELMA
		SLACK			
	2000	111°	1800	113°	1.1 NM to RW11R
			2.88° TCH 45		
					RW11R
CATEGORY	A	B	C	D	
LNAV MDA	700-1	367 (400-1)	700-1½	367 (400-1½)	
CIRCLING	820-1	484 (500-1)	820-1½	920-2	
			484 (500-1½)	584 (600-2)	

DME/DME RNP-0.3 NA.
Straight-in minimums NA at night.

MISSED APPROACH: Climb to 2000 direct GIRPE
and via 319° track to CZQ VORTAC and hold.

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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2000

GIRPE

319° track

CZQ

STORI

SANGO

290°

291°

1800

2600

Procedure Turn NA

4.7 NM

6.1 NM

CATEGORY	A	B	C	D
LNAV MDA	760-1	430 (500-1)	760-1¼ 430 (500-1¼)	760-1½ 430 (500-1½)
CIRCLING	820-1	484 (500-1)	820-1½ 484 (500-1½)	920-2 584 (600-2)

REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R

WAAS CH 81803 W29A	APP CRS 291°	Rwy Idg TDZE Apt Elev	8915 333 336
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RNAV (GPS) RWY 29R

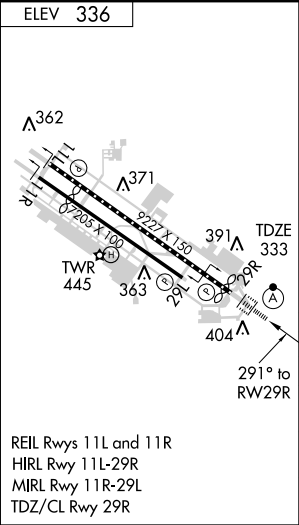
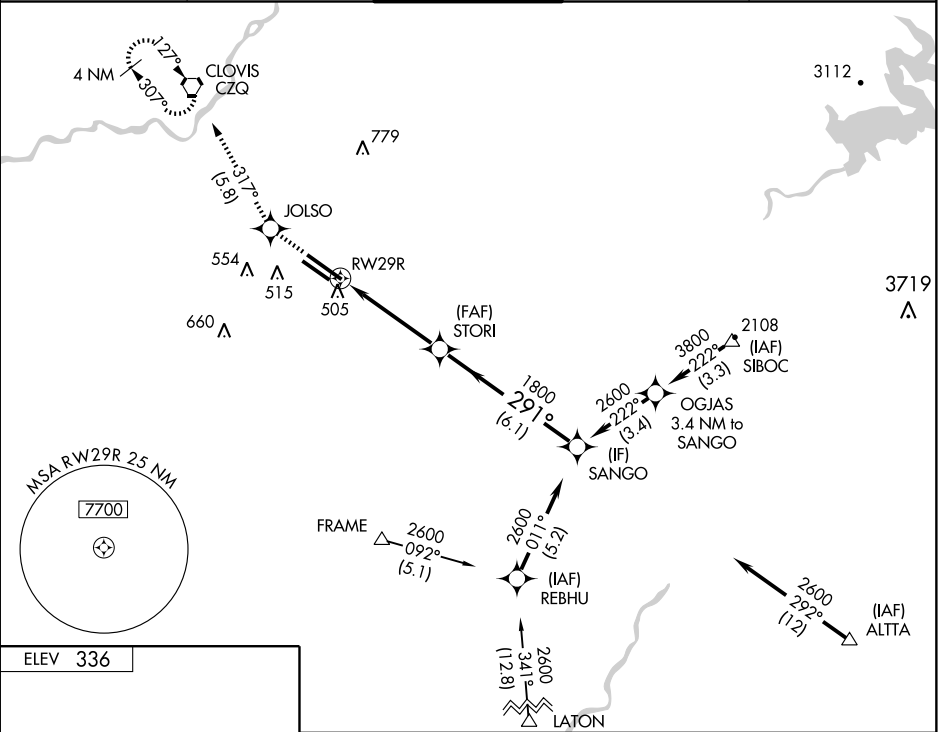
FRESNO YOSEMITE INTL (FAT)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -15°C (5°F).
For inoperative ALSF-2, increase LPV visibility to RVR 4000, all Cats.

ALSF-2

MISSED APPROACH: Climb to 2000 direct JOLSO and via 317° track to CZQ VORTAC and hold.

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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2000 ↑	JOLSO ✦	317° track	CZQ ⬡	VGSI and RNAV glidepath not coincident.			
				STORI	SANGO		
*LNAV only					2600	Procedure Turn NA	
RW29R ↻				1.1	3.3 NM	6.1 NM	
				1800	291°	GS 3.00° TCH 58	
CATEGORY	A		B		C		D
LPV DA	590/24		257 (300-½)				
LNAV/VNAV DA	760/50		427 (500-1)				
LNAV MDA	760/24 427 (500-½)		760/40 427 (500-¾)		760/50 427 (500-1)		
CIRCLING	820-1½ 484 (500-1½)				920-2 584 (600-2)		

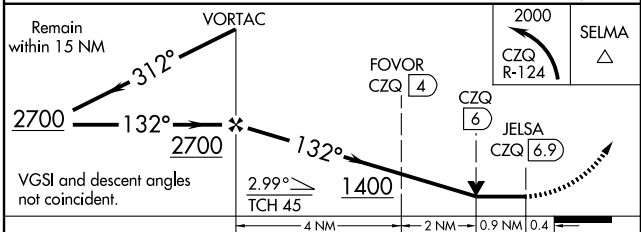
AL-162 (FAA)

VOR/DME or TACAN RWY 11L
FRESNO YOSEMITE INTL (FAT)

MISSED APPROACH: Climbing left turn to 2000 via CZQ VORTAC R-124 to SELMA/CZQ 18.6 DME and hold.

SW-2. 14 JAN 2010 to 11 FEB 2010

REIL Rwy 11L and 11R
HIRL Rwy 11L-29R
MIRL Rwy 11R-29L
TDZ/CL Rwy 29R



CATEGORY	A	B	C	D	E
S-11L	800-50	464 (500-1)	800/60 464 (500-1¼)	800-1½ 464 (500-1½)	800-1¾ 464 (500-1¾)
SIDESTEP 11R	800-1	467 (500-1)	800-1½ 467 (500-1½)	800-2	467 (500-2)
CIRCLING	820-1	484 (500-1)	820-1½ 484 (500-1½)	920-2 584 (600-2)	1140-2¾ 804 (900-2¾)

VORTAC CZQ 112.9 Chan 76	APP CRS 306°	Rwy 29R Idg 8915 TDZE 333 Apt Elev 336	Rwy 29L Idg 7205 TDZE 330 Apt Elev 336
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FRESNO YOSEMITE INTL (FAT)

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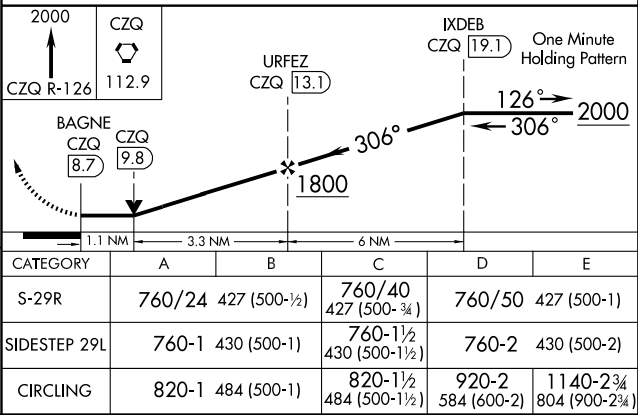
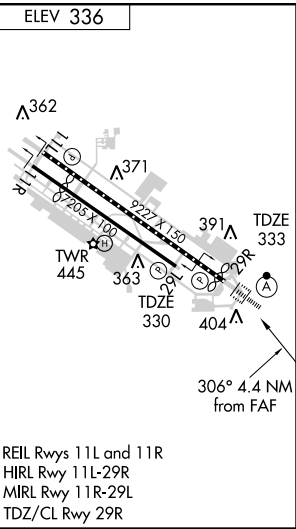
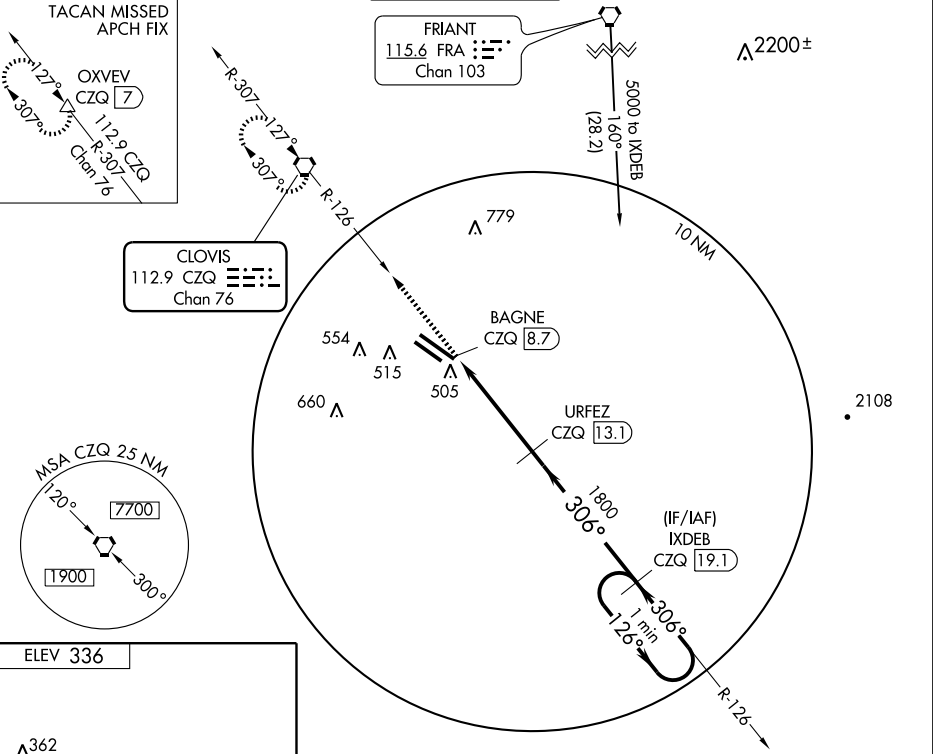
For inoperative ALSF-2, increase S-29R Cat E visibility to 1½.

ALSF-2
Rwy 29R



MISSED APPROACH: Climb to 2000 via CZQ R-126 to CZQ VORTAC and hold. (TACAN aircraft continue climb to 3000 via CZQ R-307 to OXVEV/7 DME and hold (NW, RT, 127° inbound).

ATIS 121.35 273.6	FRESNO APP CON 119.6 351.95	FRESNO TOWER 118.2 251.1	GND CON 121.7 348.6	CLNC DEL 124.35 348.6
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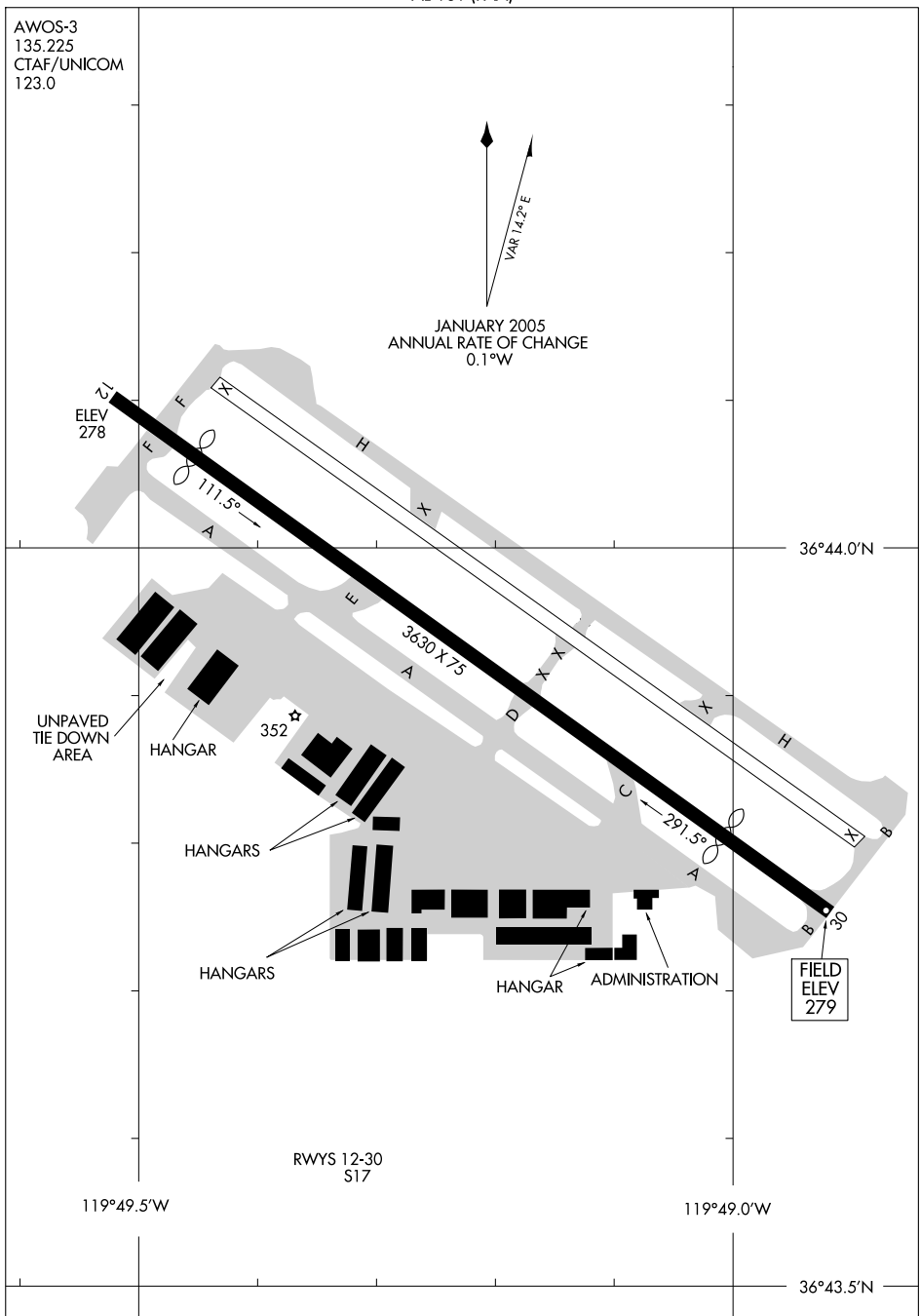


AIRPORT DIAGRAM

AL-161 (FAA)

FRESNO CHANDLER EXECUTIVE (FCH)
FRESNO, CALIFORNIA

AWOS-3
135.225
CTAF/UNICOM
123.0



SW-2 14 JAN 2010 to 11 FEB 2010

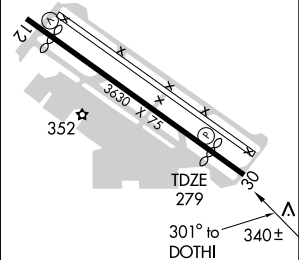
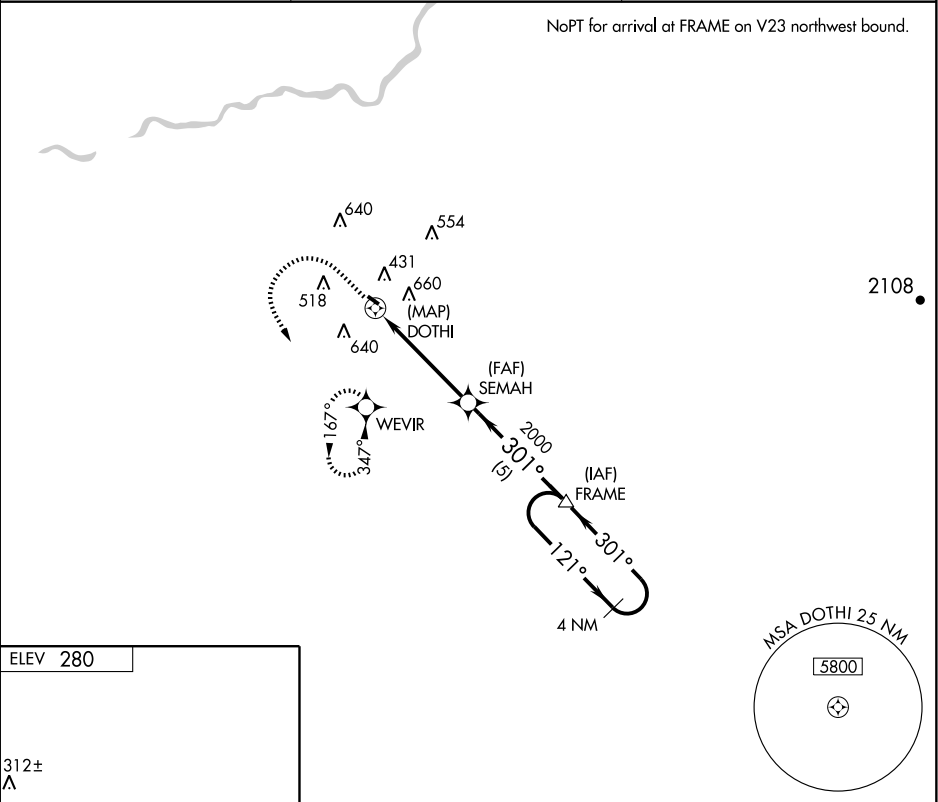
APP CRS	Rwy Idg	3090
301°	TDZE	279
	Apt Elev	280

GPS RWY 30
FRESNO CHANDLER EXECUTIVE (FCH)

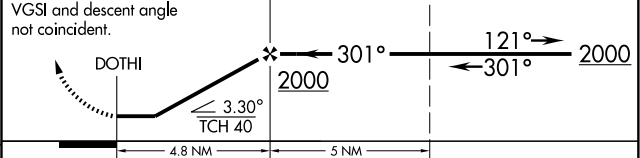
 NA	If local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all MDAs 20 feet.	MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct WEVIR WP and hold.
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AWOS-3 135.225	FRESNO APP CON 119.0 323.25	UNICOM 123.0 (CTAF) 
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NoPT for arrival at FRAME on V23 northwest bound.



REIL Rwys 12 and 30 
MIRL Rwy 12-30 

	1000	2000	WEVIR	SEMAH	FRAME	4 NM Holding Pattern
						
	VGSI and descent angle not coincident.					
						
CATEGORY	A	B	C	D		
S-30	900-1	621 (700-1)	900-1 3/4 621 (700-1 3/4)	NA		
CIRCLING	1020-1	740 (800-1)	1020-2 740 (800-2)	NA		

NDB or GPS-B

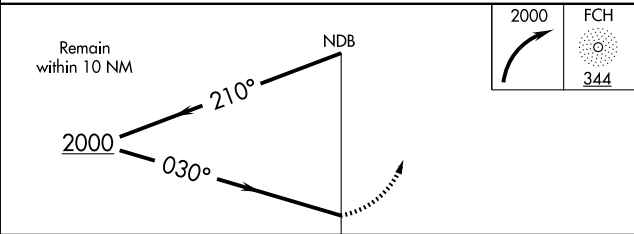
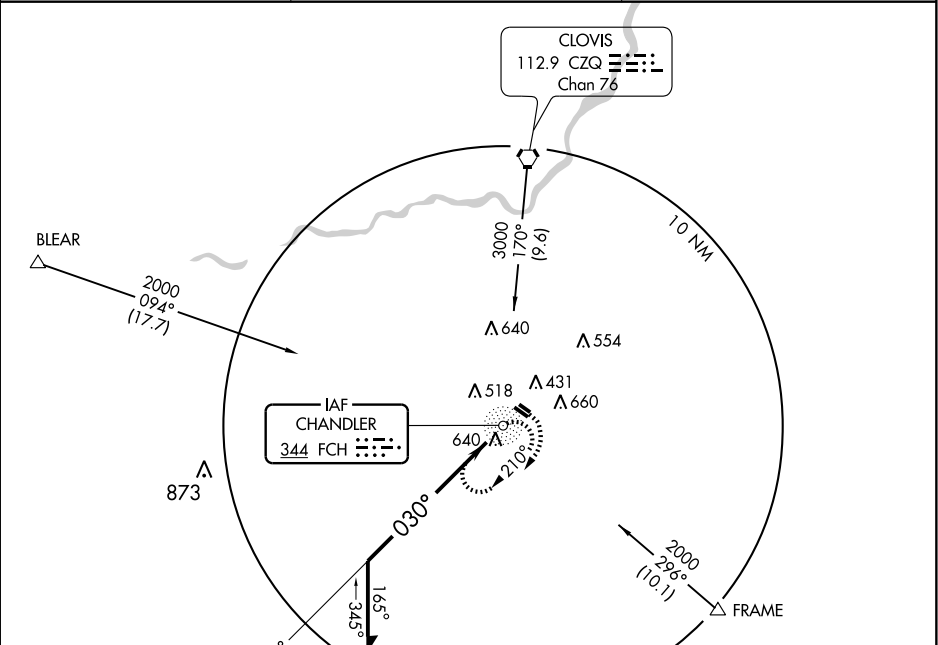
FRESNO CHANDLER EXECUTIVE (FCH)

NDB FCH 344	APP CRS 030°	Rwy Idg TDZE Apt Elev	N/A N/A 280
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If local altimeter setting not received, use Fresno
Yosemite Intl altimeter setting and increase MDA 20 feet.

MISSED APPROACH: Climbing right turn to 2000 in
FCH NDB holding pattern.

AWOS-3 135.225	FRESNO APP CON 119.0 323.25	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
CIRCLING	1020-1	740 (800-1)	1020-2 740 (800-2)	NA

REIL Rwy 12 and 30
MIRL Rwy 12-30

VORTAC CZQ 112.9 Chn 76	APP CRS 347°	Rwy Idg TDZE Apt Elev	N/A N/A 280
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VOR/DME or GPS-C
FRESNO CHANDLER EXECUTIVE (FCH)

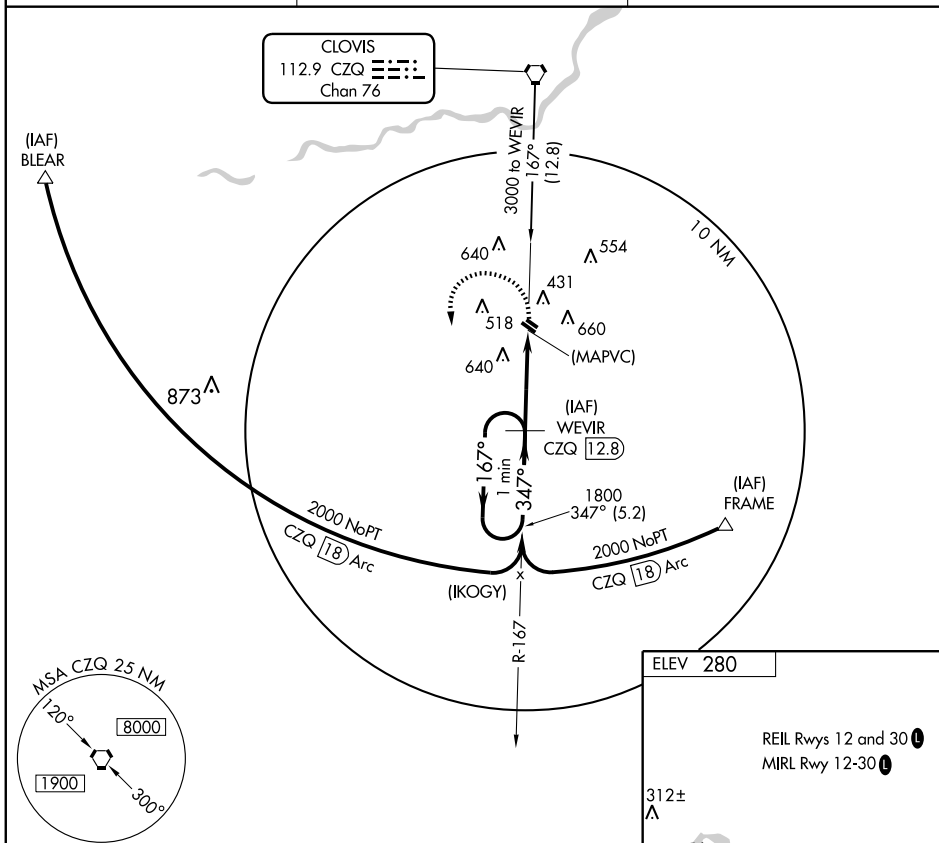
T If local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase MDA 20 feet.

MISSED APPROACH: Climbing left turn to 2000 via R-167 to WEVIR 12.8 DME and hold.

AWOS-3
135.225

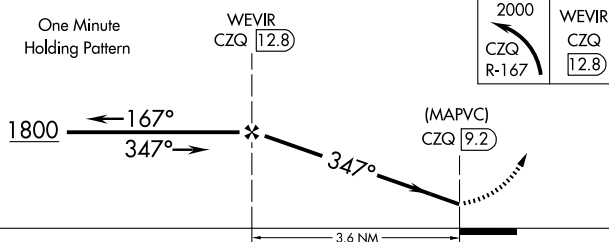
FRESNO APP CON
119.0 323.25

UNICOM
123.0 (CTAF) **L**



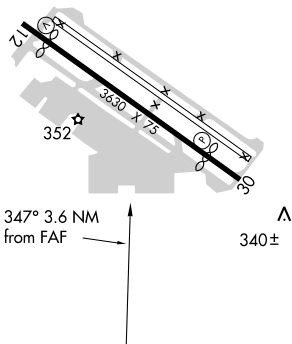
SW-2: 14 JAN 2010 to 11 FEB 2010

One Minute Holding Pattern



ELEV 280

REIL Rwy 12 and 30 **L**
MIRL Rwy 12-30 **L**

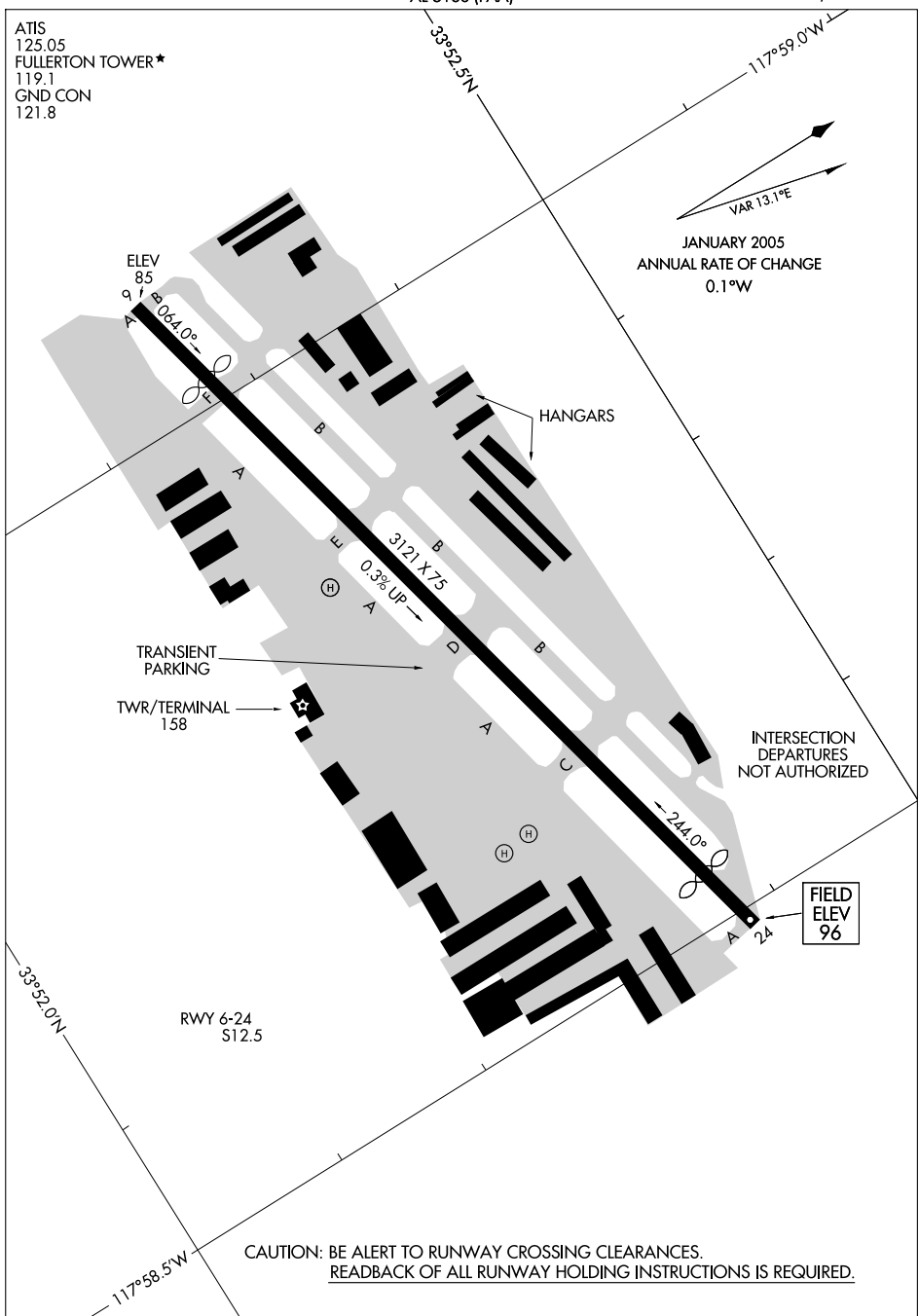
 $312 \pm$
^

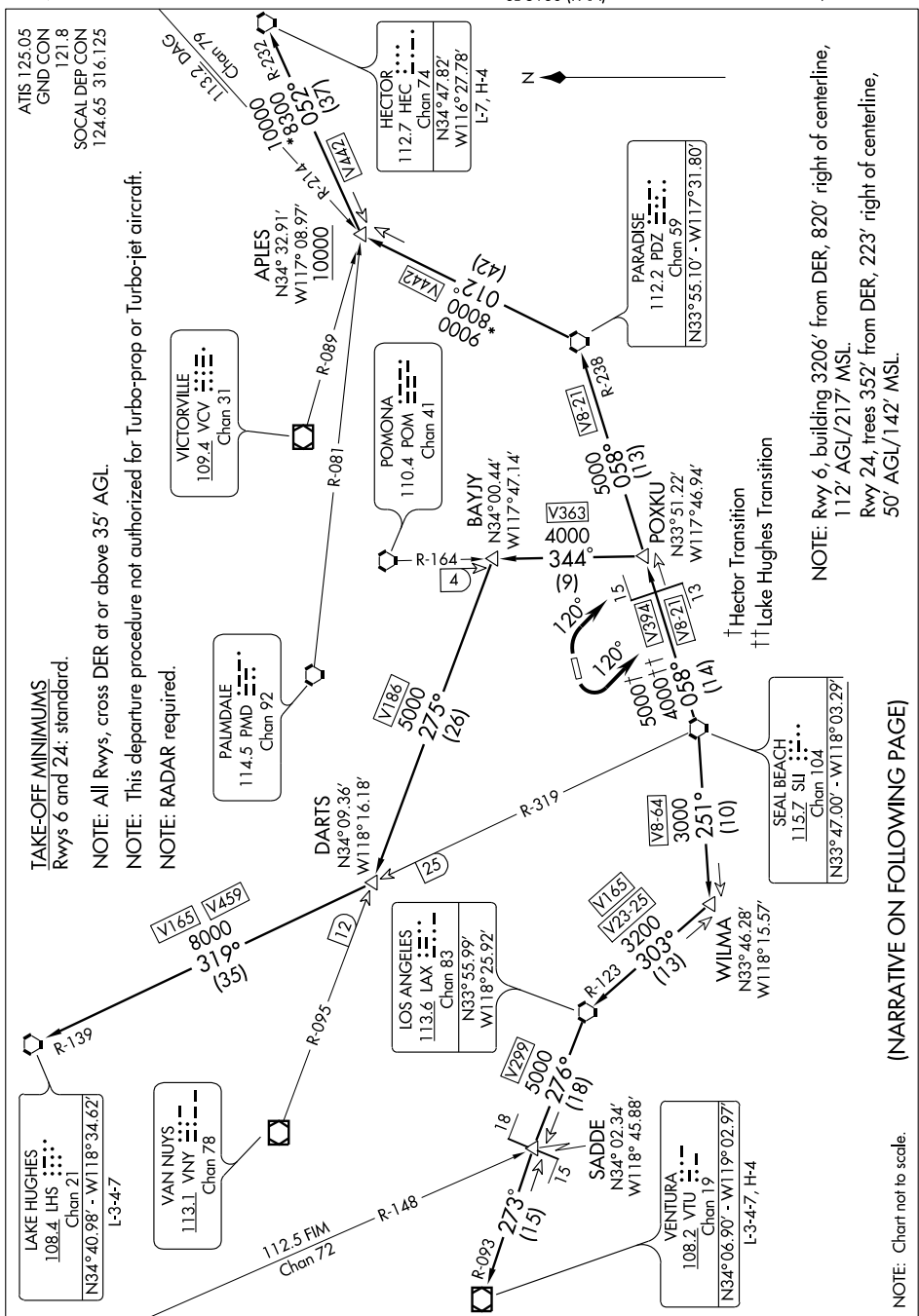
CATEGORY	A	B	C	D
CIRCLING	1020-1	740 (800-1)	1020-2 740 (800-2)	NA

AIRPORT DIAGRAM

AL-5136 (FAA)

 FULLERTON MUNI (FUL)
 FULLERTON, CALIFORNIA

 ATIS
 125.05
 FULLERTON TOWER ★
 119.1
 GND CON
 121.8






DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Turn right heading 120° for radar vectors to SLI VORTAC.
Thence. . .

TAKE-OFF RUNWAY 24: Turn left heading 120° for radar vectors to SLI VORTAC.
Thence. . .

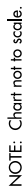
. . . via (transition) or (assigned route). Maintain 2000 feet. Expect clearance to
filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM3.HEC): From over SLI VORTAC via SLI R-058 and
PDZ R-238 to PDZ VORTAC, then via PDZ R-012 and HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM3.LHS): From over SLI VORTAC via SLI R-058
and PDZ R-238 to POXKU INT, then via POM R-164 to BAYJY INT, then via VNY R-095
to DARTS INT. Thence via SLI R-319 and LHS R-139 to LHS VORTAC.

VENTURA TRANSITION (ANAHM3.VTU): From over SLI VORTAC via SLI R-251 to
WILMA INT, then via LAX R-123 to LAX VORTAC, then via LAX R-276 and VTU R-093
to VTU VOR/DME.

LONG BEACH, CALIFORNIA



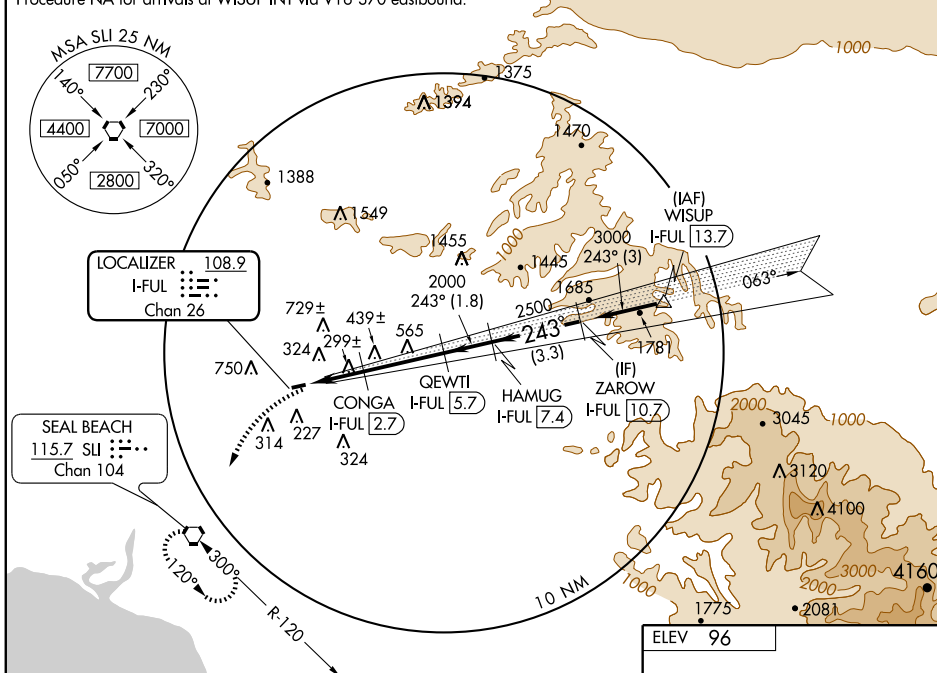
LOC/DME I-FUL	APP CRS	Rwy Idg	2868
108.9	243°	TDZE	95
Chan 26		Apt Elev	96

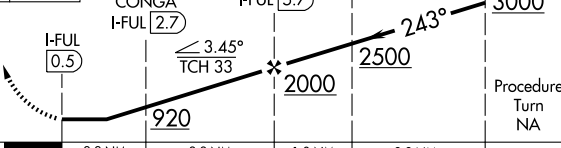
LOC/DME RWY 24

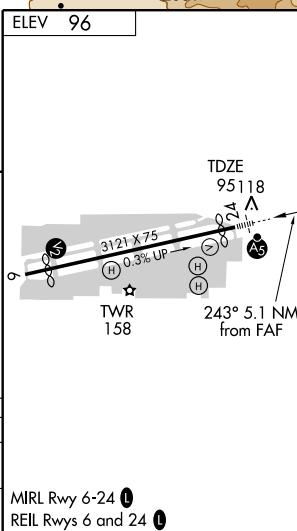
FULLERTON MUNI (FUL)

Inoperative table does not apply.		MALSR	MISSED APPROACH: Climbing left turn to 2600 direct SLI VORTAC and hold.	
ATIS 125.05	SOCAL APP CON 124.65 316.125	FULLERTON TOWER ★ 119.1 (CTAF)	GND CON 121.8	UNICOM 122.95

Procedure NA for arrivals at WISUP INT via V16-370 eastbound.



2600	SLI  115.7	VGSI and descent angles not coincident.		HAMUG I-FUL (7.4)	ZAROW I-FUL (10.7)
					
CATEGORY	A		B	C	D
S-24	560-1 465 (500-1)			NA	
CIRCLING	760-1 664 (700-1)	820-1 724 (800-1)		NA	



MIRL Rwy 6-24
REIL Rws 6 and 24

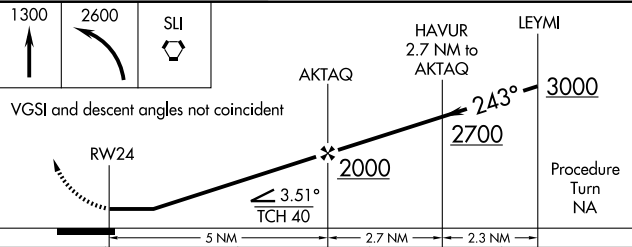
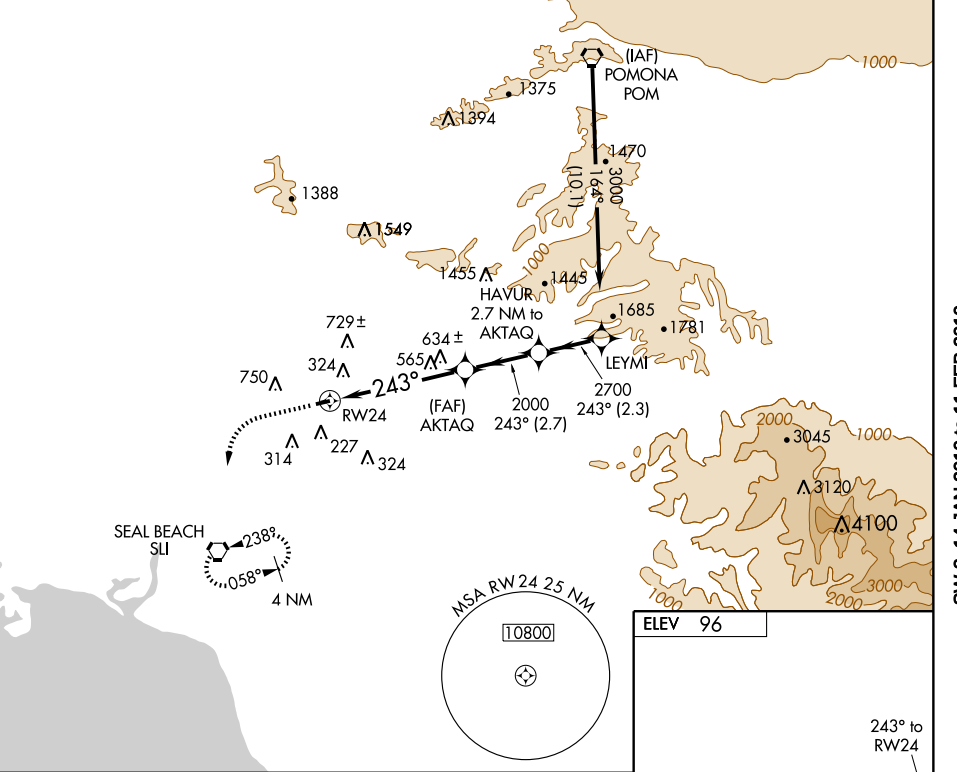
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 1300, then climbing left turn to 2600 direct SLI VORTAC and hold.

ATIS 125.05	SOCAL APP CON 124.65 316.125	FULLERTON TOWER★ 119.1 (CTAF)	GND CON 121.8	UNICOM 122.95
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Procedure NA for arrival on POM VORTAC airway radials 104 CW 224.



CATEGORY	A	B	C	D
LNNAV MDA	900-1 805 (900-1)	900-1¼ 805 (900-1¼)	NA	NA
CIRCLING	900-1 804 (900-1)	900-1¼ 804 (900-1¼)	NA	NA

ELEV 96

243° to RWY24
118
3121 X 75
0.3% UP
TWR 158
TDZE 95

MIRL Rwy 6-24

REIL Rws 6 and 24

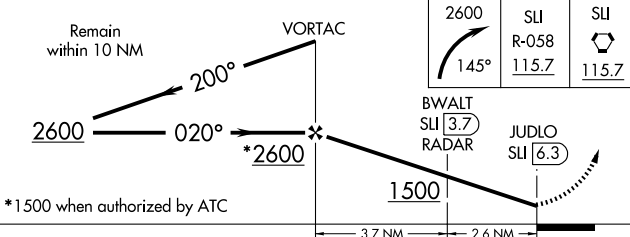
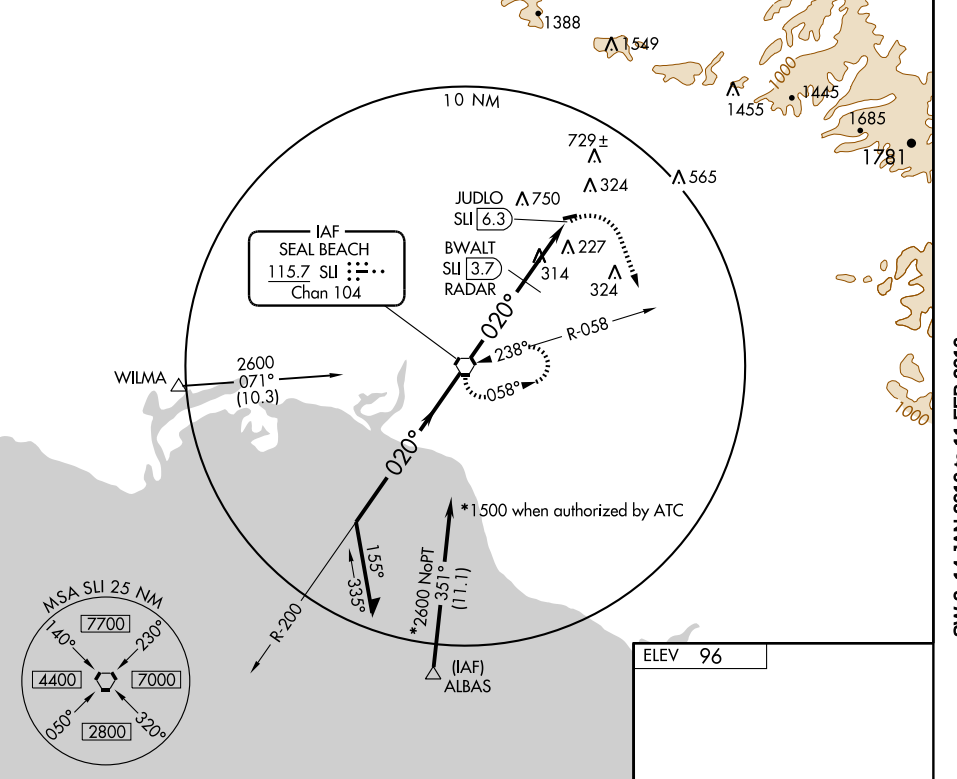
▼

▲

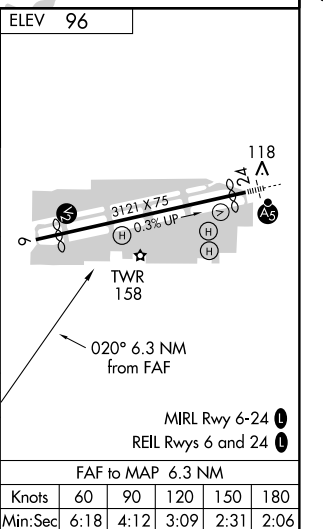
Maximum entry altitude 6000.

MISSED APPROACH: Climbing right turn to 2600 via heading 145° and SLI R-058 to SLI VORTAC and hold.

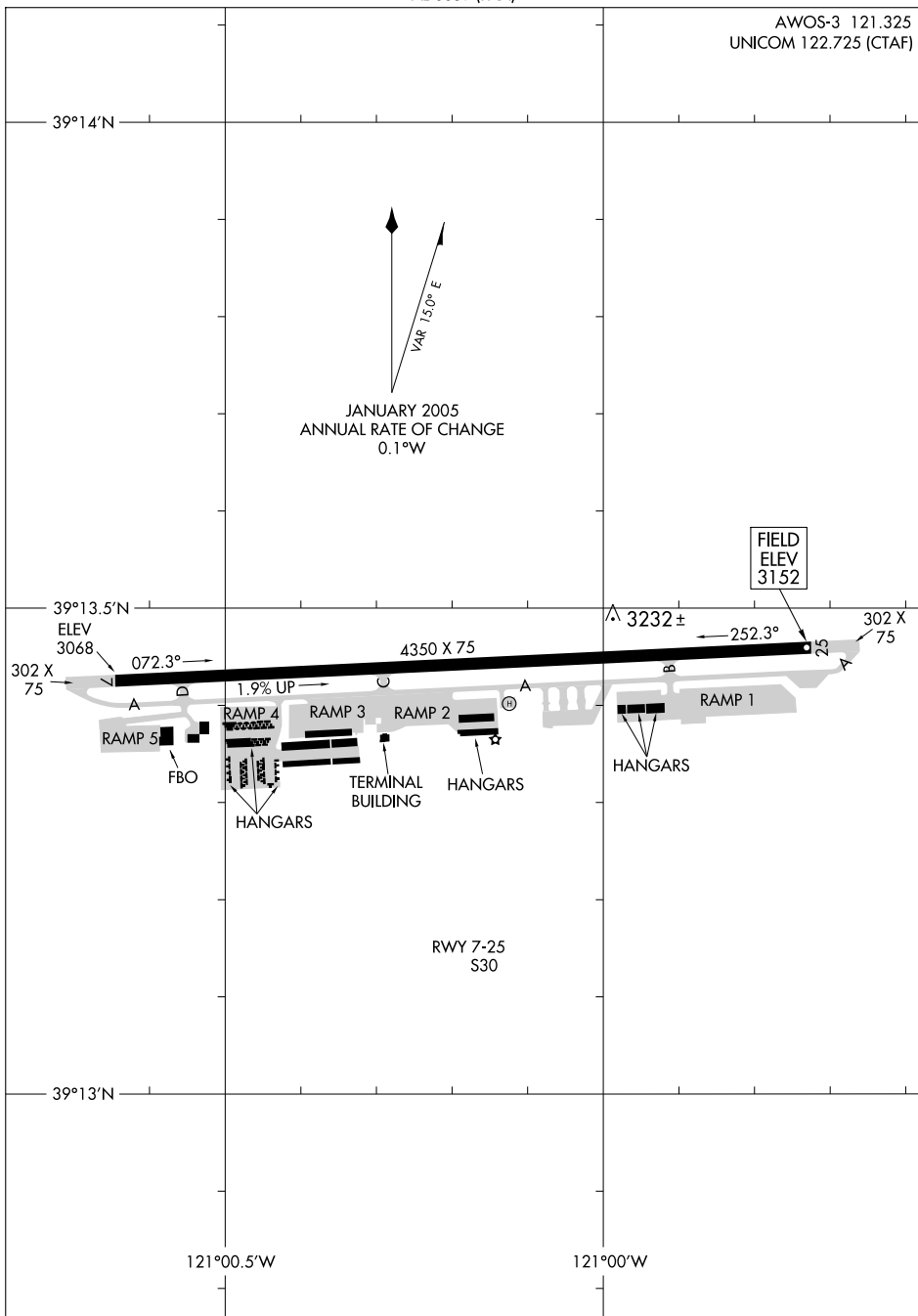
ATIS 125.05	SOCAL APP CON 124.65 316.125	FULLERTON TOWER★ 119.1 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	1500-1¼ 1404 (1500-1¼)	1500-1½ 1404 (1500-1½)	NA	
BWALT FIX MINIMUMS				
CIRCLING	740-1 644 (700-1)	760-1 664 (700-1)	NA	



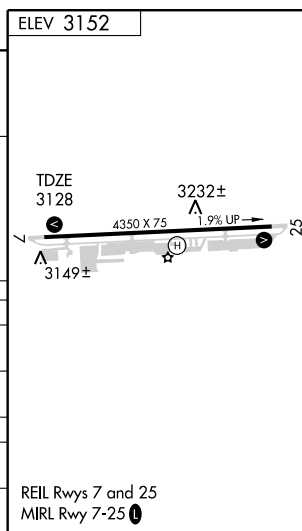
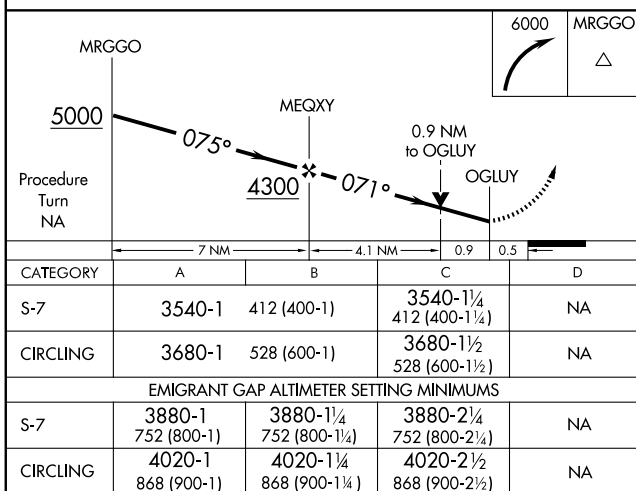
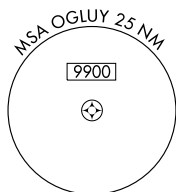
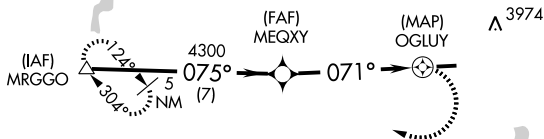
AIRPORT DIAGRAM

GRASS VALLEY / NEVADA COUNTY AIRPARK (G00)
AL-6659 (FAA) GRASS VALLEY, CALIFORNIAAWOS-3 121.325
UNICOM 122.725 (CTAF)

GRASS VALLEY/ NEVADA COUNTY AIR PARK (GOO)

MISSED APPROACH: Climbing right turn to 6000 direct MRGGO WP and hold.

UNICOM
122.725 (CTAF) 



VOR/DME MYV 110.8 Chan 45	APP CRS 058°	Rwy Idg TDZE Apt Elev N/A N/A 3152
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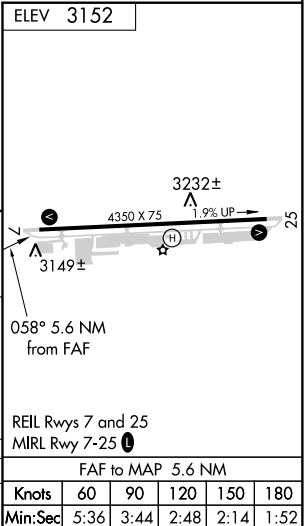
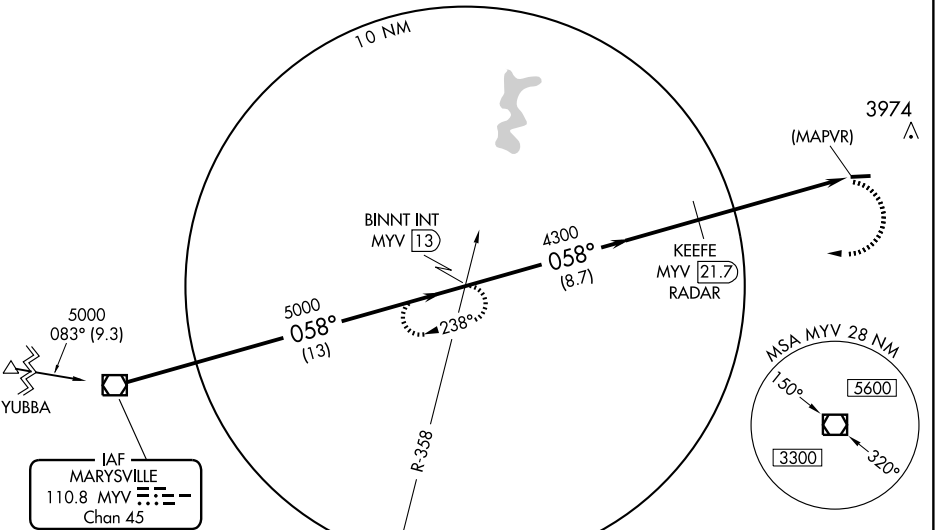
VOR or GPS-A

GRASS VALLEY/ NEVADA COUNTY AIR PARK (G00)

▼ ▲NA When local altimeter setting not received, use Emigrant Gap altimeter setting. Circling not authorized north of Rwy 7-25.	MISSED APPROACH: Climbing right turn to 5000 via MYV R-058 to BINNT Int/MYV 13 DME and hold.
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AWOS-3 121.325	NORCAL APP CON 125.4 259.1	UNICOM 122.725 (CTAF) 0
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DME or RADAR REQUIRED



APP CRS	Rwy Idg	3625
095°	TDZE	2919
	Apt Elev	2930

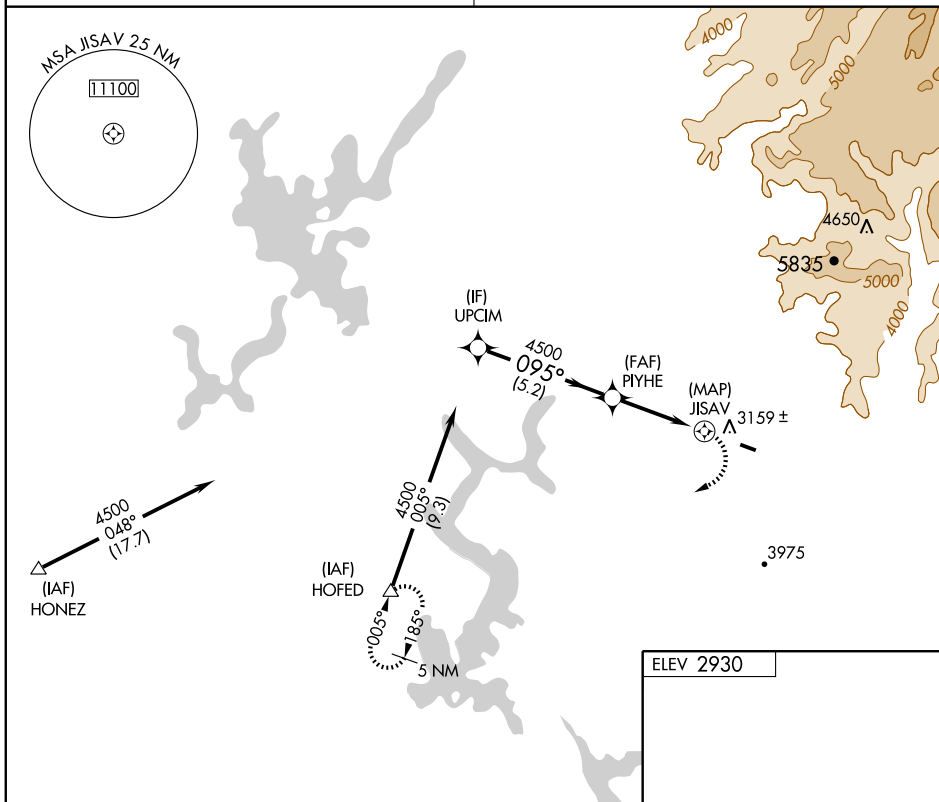
RNAV (GPS) RWY 9

GROVELAND/ PINE MOUNTAIN LAKE (E45)

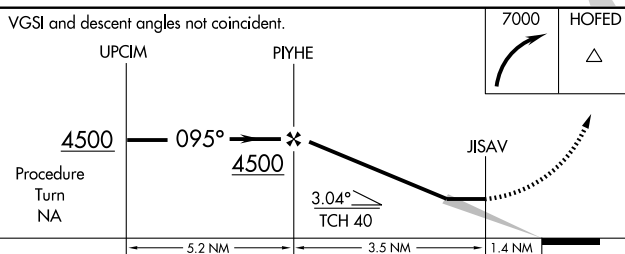
T DME/DME RNP-0.3 NA.
A NA Use Columbia altimeter setting; If not received, use Castle
altimeter setting and increase all MDA's 560 feet.

MISSED APPROACH: Climbing right turn to 7000 direct HOFED and hold, continue climb-in-hold to 7000.

OAKLAND CENTER
121.25 327.0

CTAF
122.9 **L**

VGSI and descent angles not coincident.



CATEGORY	A	B	C	D
LNAV MDA	4060-1 $\frac{3}{4}$	1141 (1200-1 $\frac{3}{4}$)	NA	
CIRCLING	4060-1 $\frac{3}{4}$	1130 (1200-1 $\frac{3}{4}$)	NA	

ELEV 2930

TDZE
2919MIRL Rwy 9-27 **L**

⚠

NA

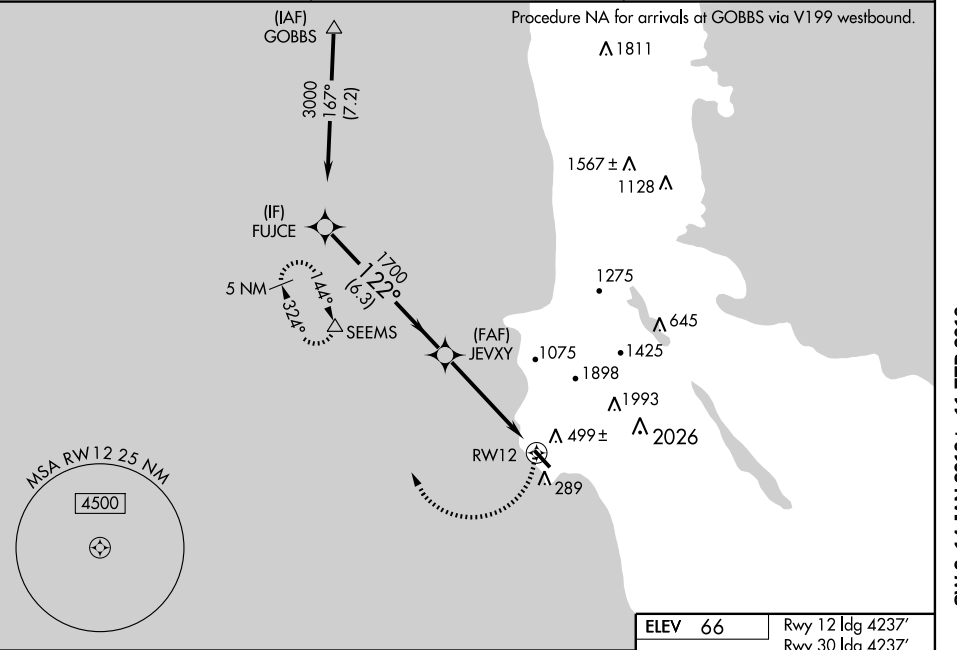
Circling NA east of Rwy 12/30. DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
VDP NA when using San Francisco Intl altimeter setting.
Obtain local altimeter setting on CTAF; when not received,
use San Francisco Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 6000 direct
SEEMS and hold, continue climb-in-hold to 6000.

AWOS
127.275

NORCAL APP CON
135.1 307.2

UNICOM
122.8 (CTAF)



ELEV 66

Rwy 12 Idg 4237'

Rwy 30 Idg 4237'

Procedure Turn NA

3000

122°

1700

6.3 NM

2.8 NM

2 NM

2 NM to RWY 12

3.14° TCH 40

6000

SEEMS

CATEGORY	A	B	C	D
LNAV MDA	760-1	701 (700-1)	NA	
CIRCLING	760-1	694 (700-1)	NA	
SAN FRANCISCO ALTIMETER SETTING MINIMUMS				
LNAV MDA	780-1	721 (800-1)	NA	
CIRCLING	780-1	714 (800-1)	NA	

122° to RWY 12

TDZE 59

3000 X 150

0.7% UP

Λ 229

REIL Rwy 30

MIRL Rwy 12-30

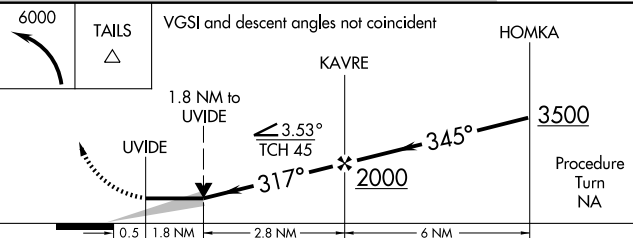
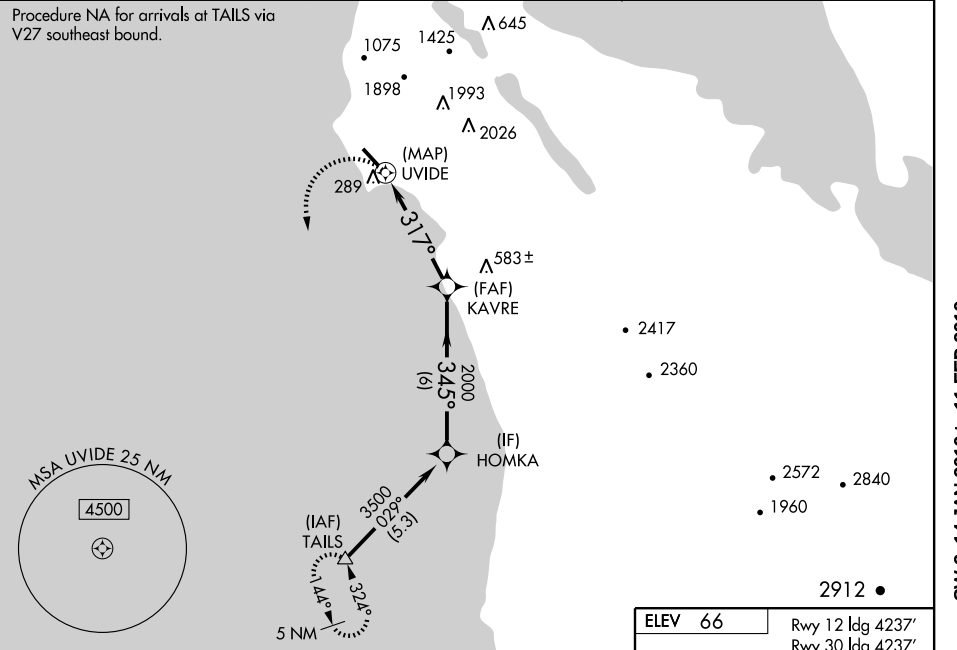
SW-2, 14 JAN 2010 to 11 FEB 2010

NA

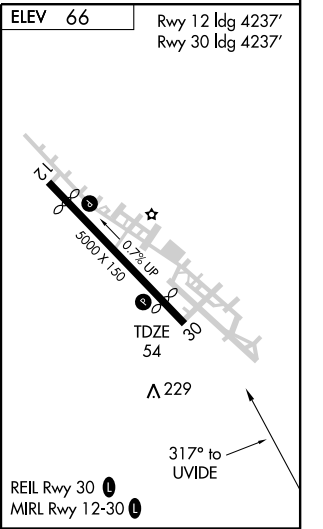
Circling NA east of Rwy 12/30.
DME/DME RNP-0.3 NA.
Obtain local altimeter setting on CTAF; when not received, use San Francisco Intl altimeter setting.
VDP NA when using San Francisco Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 6000 direct TAILS and hold, continue climb-in-hold to 6000.

AWOS 127.275	NORCAL APP CON 135.1 307.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	800-1 746 (800-1)	800-1¼ 746 (800-1¼)	NA	
CIRCLING	800-1 734 (800-1)	800-1¼ 734 (800-1¼)	NA	
SAN FRANCISCO ALTIMETER SETTING MINIMUMS				
LNAV MDA	840-1 786 (800-1)	840-1¼ 786 (800-1¼)	NA	
CIRCLING	840-1 774 (800-1)	840-1¼ 774 (800-1¼)	NA	



RNAV (GPS) Z RWY 12

HALF MOON BAY (HAF)

WAAS CH 93802 W12A	APP CRS 122°	Rwy Idg TDZE Apt Elev	4237 59 66
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NA DME/DME RNP-0.3 NA.
Obtain local altimeter setting on CTAF; when not received, use San Francisco Intl altimeter setting.
Visibility reduction by helicopters NA.

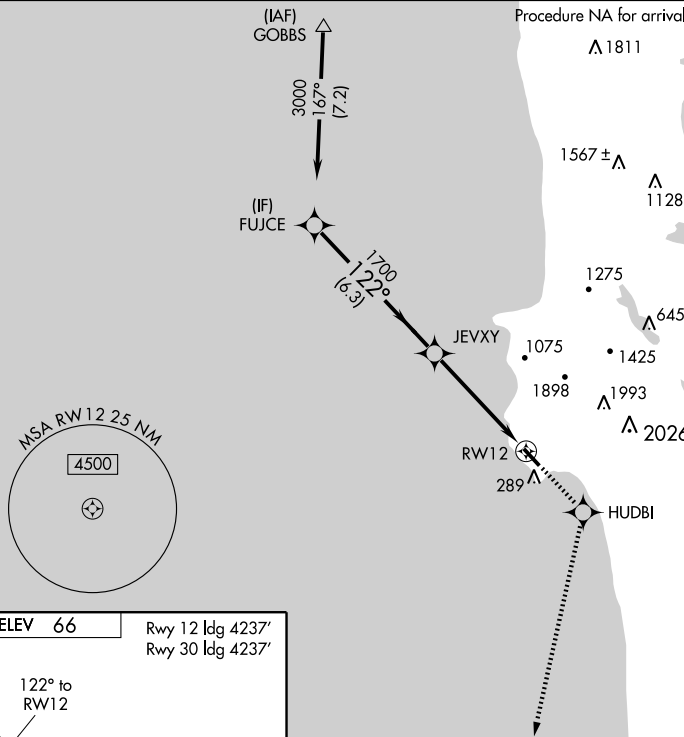
MISSED APPROACH: Climb to 6000 direct HUDBI and via 178° track to TAILS and hold, continue climb-in-hold to 6000.

AWOS
127.275

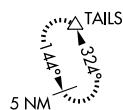
NORCAL APP CON
135.1 307.2

UNICOM
122.8 (CTAF)

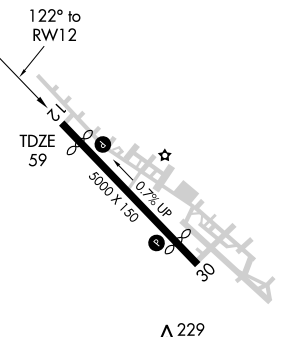
Procedure NA for arrivals at GOBBS via V199 westbound.



MISSED APCH FIX



ELEV 66 Rwy 12 ldg 4237'
Rwy 30 ldg 4237'



FUJCE		JEVXY		6000 ↑	HUDBI ✦	178° track	TAILS △
3000		1700		VGS1 and RNAV glidepath not coincident			
Procedure Turn NA		122°		RW12			
GS 3.10° TCH 40		1700					
6.3 NM		4.8 NM					
CATEGORY	A	B	C	D			
LPV DA	395-1¼	336 (400-1¼)	NA				
SAN FRANCISCO ALTIMETER SETTING MINIMUMS							
LPV DA	423-1¼	364 (400-1¼)	NA				

REIL Rwy 30 **1**
MIRL Rwy 12-30 **1**

▼

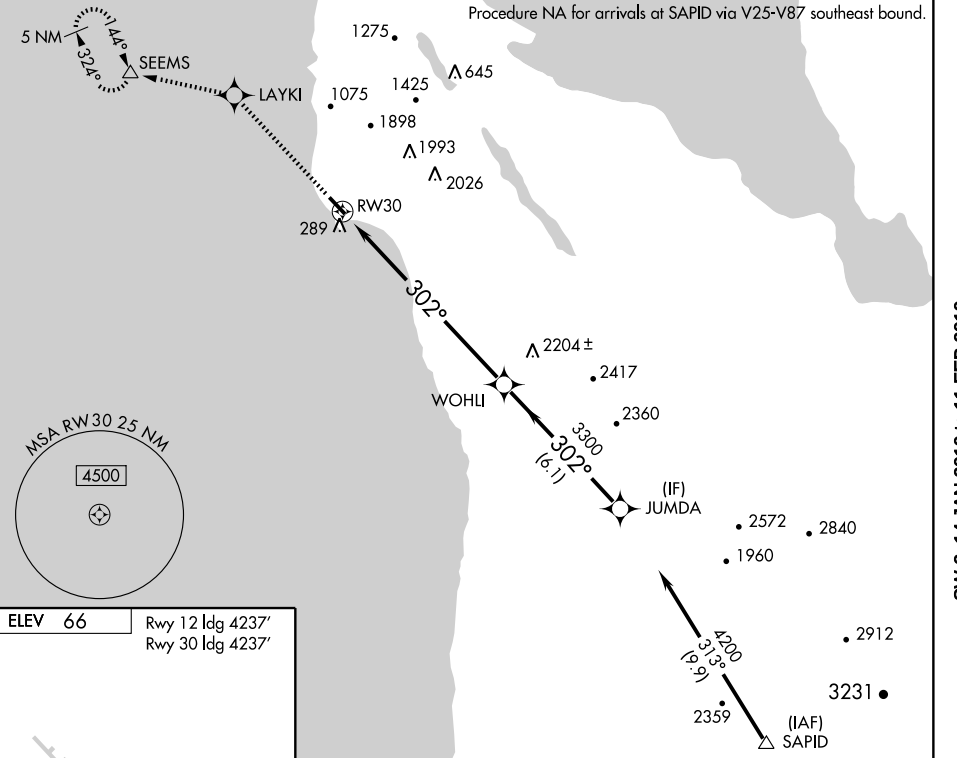
△ NA

W

DME/DME RNP- 0.3 NA.
Obtain local altimeter setting on CTAF; when not received,
use San Francisco Intl altimeter setting.

MISSED APPROACH: Climb to 6000 direct LAYKI
and via 267° track to SEEMS and hold, continue
climb-in-hold to 6000.

AWOS 127.275	NORCAL APP CON 135.1 307.2	UNICOM 122.8 (CTAF) 0
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ELEV 66	Rwy 12 Idg 4237' Rwy 30 Idg 4237'
---------	--------------------------------------

6000	LAYKI	267° track	SEEMS	Procedure Turn NA	JUMDA
VGSI and RNAV glidepath not coincident					
RWY 30		3300		302°	4200
		8.5 NM		6.1 NM	GS 3.50° TCH 40
CATEGORY	A	B	C	D	
LPV DA	363-1 309 (300-1)		NA		
SAN FRANCISCO ALTIMETER SETTING MINIMUMS					
LPV DA	391-1 337 (400-1)		NA		

REIL Rwy 30 0
MIRL Rwy 12-30 0

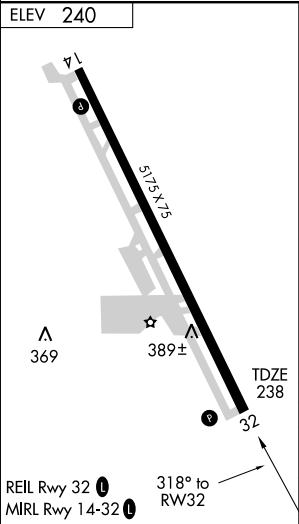
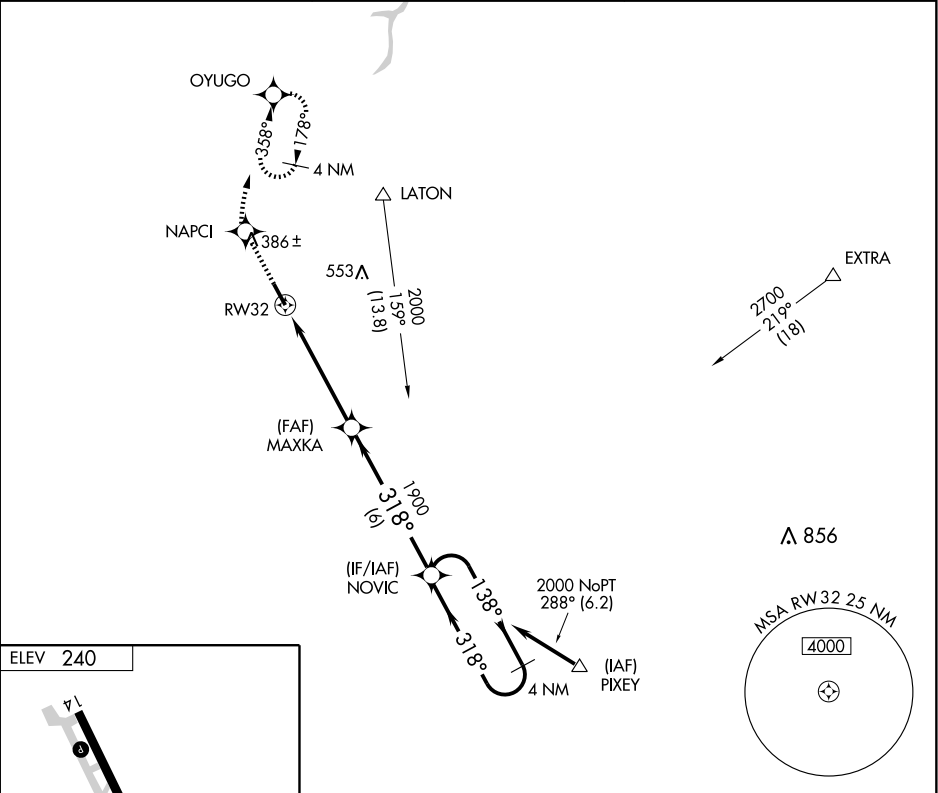
SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	5175
318°	TDZE	238
	Apt Elev	240

RNAV (GPS) RWY 32
HANFORD MUNI (HJO)

	DME/DME RNP -0.3 NA. When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all MDAs 80 feet.	MISSED APPROACH: Climb to 2000 direct NAPCI and via 358° track to OYUGO and hold.
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ASOS 134.75	FRESNO APP CON 123.9	UNICOM 122.8 (CTAF)
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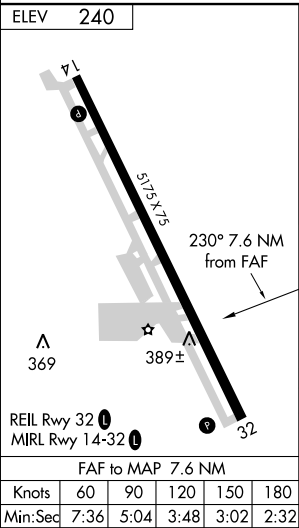
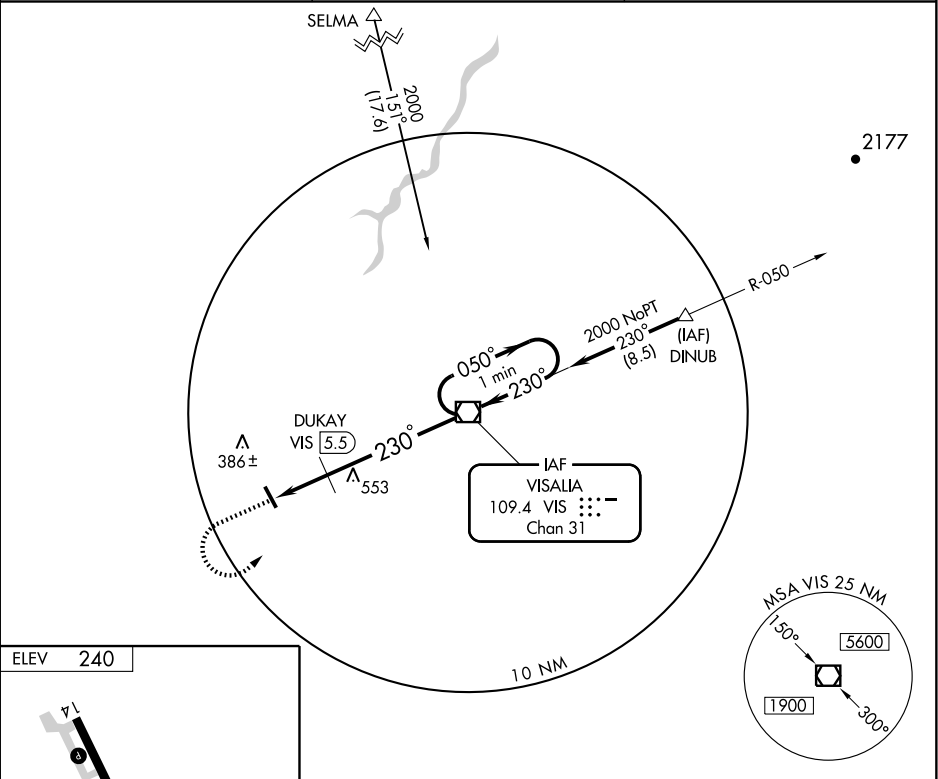
	2000	NAPCI	358°	OYUGO	VGSI and descent angles not coincident.			
					4 NM Holding Pattern			
				MAXKA	NOVIC			
				1.2 NM to RW32	138° → 2000			
				RW32	← 318°			
				3.04° TCH 40				
				1.2	3.8 NM	6 NM		
CATEGORY	A	B	C	D				
LNAV MDA	640-1	402 (400-1)	NA					
CIRCLING	720-1	480 (500-1)	NA					

VOR/DME VIS 109.4 Chan 31	APP CRS 230°	Rwy Idg TDZE Apt Elev	N/A N/A 240
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VOR-A
HANFORD MUNI (HJO)

▼ When local altimeter setting not received, use Fresno Yosemite ▲ Intl altimeter setting and increase all MDAs 80 feet.	MISSED APPROACH: Climb to 1300 then climbing left turn to 2000 direct VIS VOR/DME and hold.
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ASOS 134.75	FRESNO APP CON 123.9	UNICOM 122.8 (CTAF) 0
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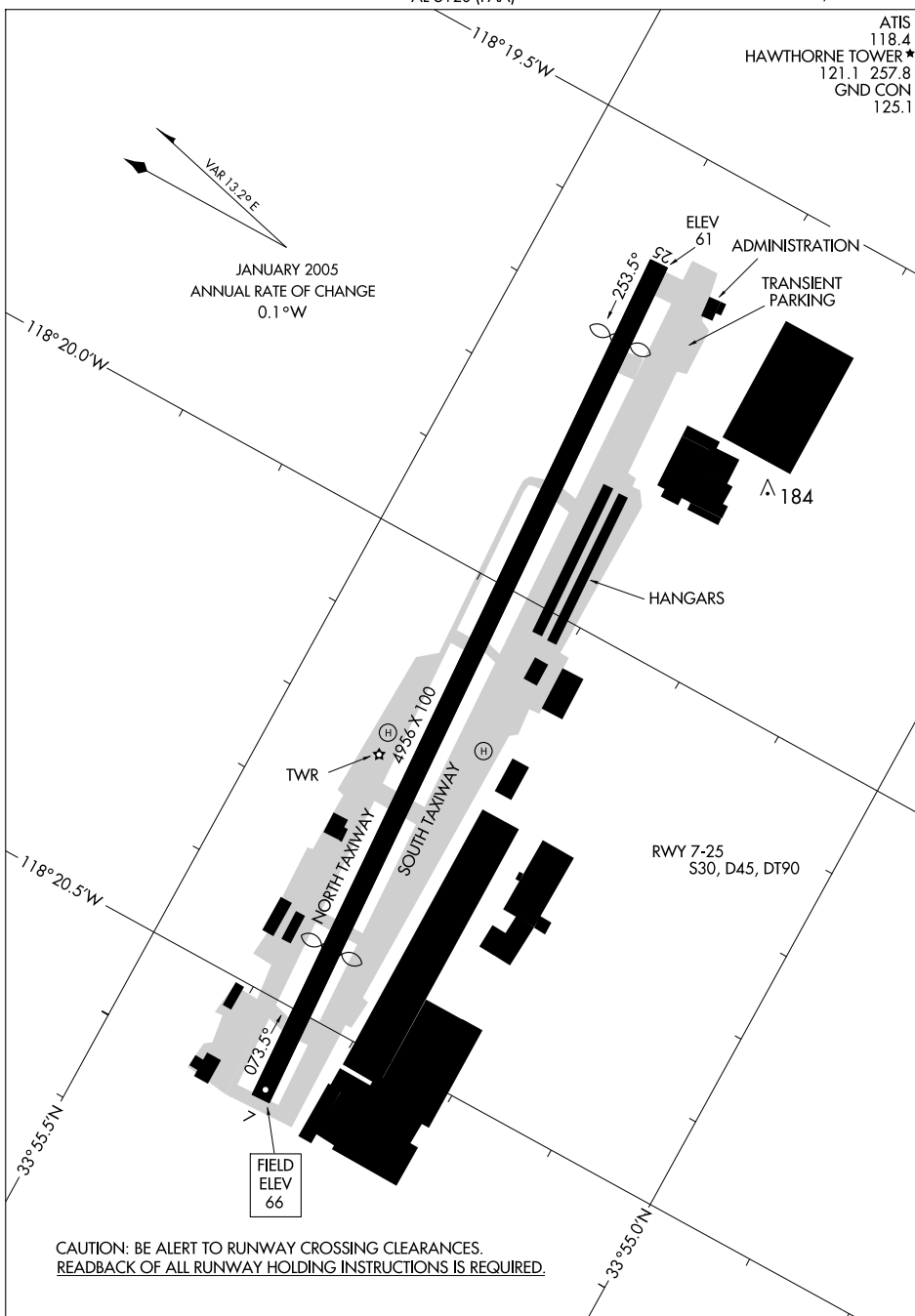


1300	2000	VIS	109.4	VOR/DME	One Minute Holding Pattern
		DUKAY VIS 5.5	940		
		VIS 7.6	2.1 NM	5.5 NM	
CATEGORY	A	B	C	D	
CIRCLING	940-1	700 (700-1)	NA		
CIRCLING	720-1	480 (500-1)	NA		

AIRPORT DIAGRAM

HAWTHORNE/JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)
AL-5120 (FAA)
HAWTHORNE, CALIFORNIA

ATIS
118.4
HAWTHORNE TOWER ★
121.1 257.8
GND CON
125.1



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBCK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

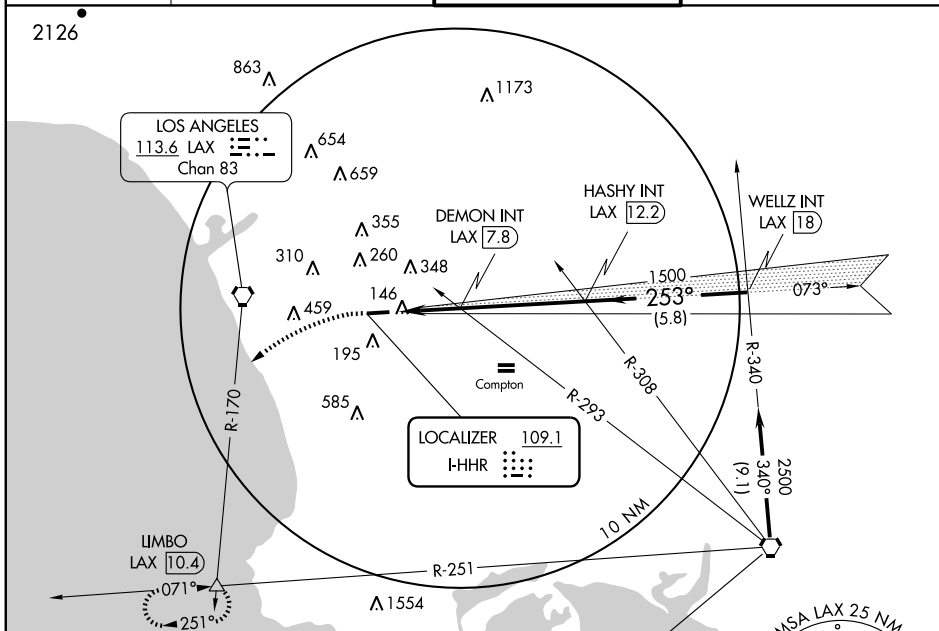
LOC I-HHR 109.1	APP CRS 253°	Rwy Idg TDZE Apt Elev	4493 63 66
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HAWTHORNE/JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

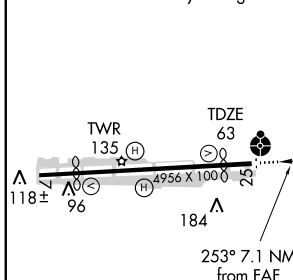
LOC RWY 25

▼ DME from LAX VORTAC. Inoperative table does not apply. ▲ Visibility reduction by helicopters NA. Circling not authorized north of Rwy 7-25. Circling not authorized when control tower closed.	ODALS	MISSED APPROACH: Climb to 700 then climbing left turn to 3000 via heading 210° and LAX R-170 to LIMBO Int and hold.
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ATIS 118.4	SOCAL APP CON 124.9 269.0	HAWTHORNE TOWER ★ 121.1 (CTAF) 257.8	GND CON 125.1
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ELEV 66	Rwy 7 Idg 3985'
	Rwy 25 Idg 4493'



REIL Rwy 25	Min:Sec	60	90	120	150	180
MIRL Rwy 7-25	6:12	4:08	3:06	2:29	2:04	
FAF to MAP 6.2 NM						

700	3000	LAX R-170 113.6	LIMBO	HASHY INT LAX 12.2	WELLZ INT LAX 18
210°					
		DEMON INT LAX 7.8			
		LAX 6		1500	2500
				LOC unusable from MAP inbound.	Procedure Turn NA
		0.9	1.8	4.4 NM	5.8 NM
CATEGORY	A	B	C	D	
S-LOC 25	600-1¼	537 (600-1¼)	600-1½ 537 (600-1½)	600-1¾ 537 (600-1¾)	
CIRCLING	600-1¼	534 (600-1¼)	600-1½ 534 (600-1½)	620-2 554 (600-2)	

▼

Visibility reduction by helicopters NA. Inoperative table does not apply.
Circling not authorized north of Rwy 7-25.
Circling not authorized when control tower closed.

ODALS

⬆

MISSED APPROACH: Climbing left turn to 3000 via heading 210° and LAX R-170 to LIMBO Int and hold.

ATIS 118.4	SOCAL APP CON 124.9 269.0	HAWTHORNE TOWER★ 121.1 (CTAF) 0 257.8	GND CON 125.1
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• 2126

ELEV 66

Rwy 7 Idg 3985'
Rwy 25 Idg 4493'

TDZE 63

TWR 135

118±

96

184

261° 5.5 NM from FAF

REIL Rwy 25

MIRL Rwy 7-25

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

	3000	LAX R-170 113.6	LIMBO	NORWA INT LAX 1.6
	210°			2500
		(MAPLC) LAX 5.3	BELLI INT LAX 10.8	1600
				261°
				Procedure Turn NA
		5.5 NM	5.2 NM	
CATEGORY	A	B	C	D
S-25	680-1	617 (700-1)	680-1 617 (700-1 3/4)	680-2 617 (700-2)
CIRCLING	680-1	614 (700-1)	680-1 614 (700-1 3/4)	680-2 614 (700-2)

SW-3, 14 JAN 2010 to 11 FEB 2010



LOC/DME I-HWD	APP CRS	Rwy Idg	5018
111.5	287°	TDZE	47
Chan 52		Apt Elev	47

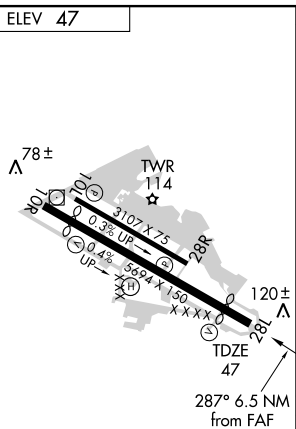
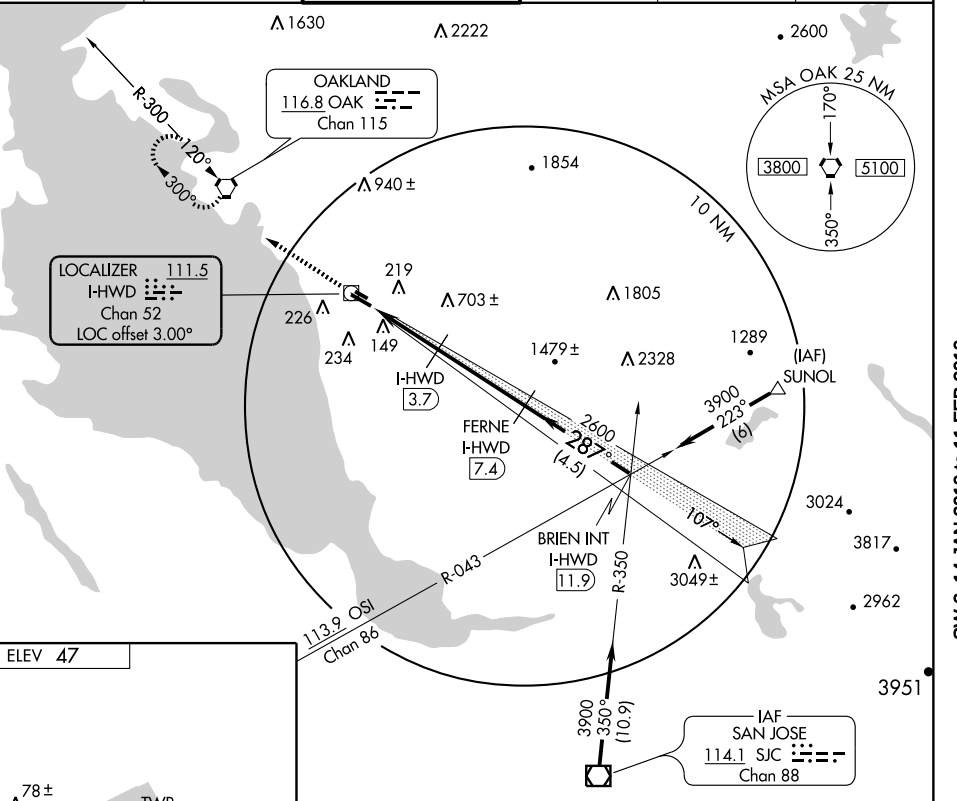
⚠

⚠

Circling not authorized north of Rwy 10L-28R.

MISSED APPROACH: Climb to 2000 direct OAK VORTAC and hold.

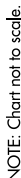
ATIS	NORCAL APP CON	HAYWARD TOWER ★	GND CON	CLNC DEL	UNICOM
126.7	124.4 351.8	120.2 (CTAF) 257.8	121.4	128.05	122.95



2000	OAK	BRIEN INT		
↑	 116.8	I-HWD 11.9		
		FERNE I-HWD 7.4		
			287°	3900
			2600	Procedure Turn NA

MIRL Rwy 10R-28L 1
MIRL Rwy 10L-28R
REIL Rwy 10R and 28L

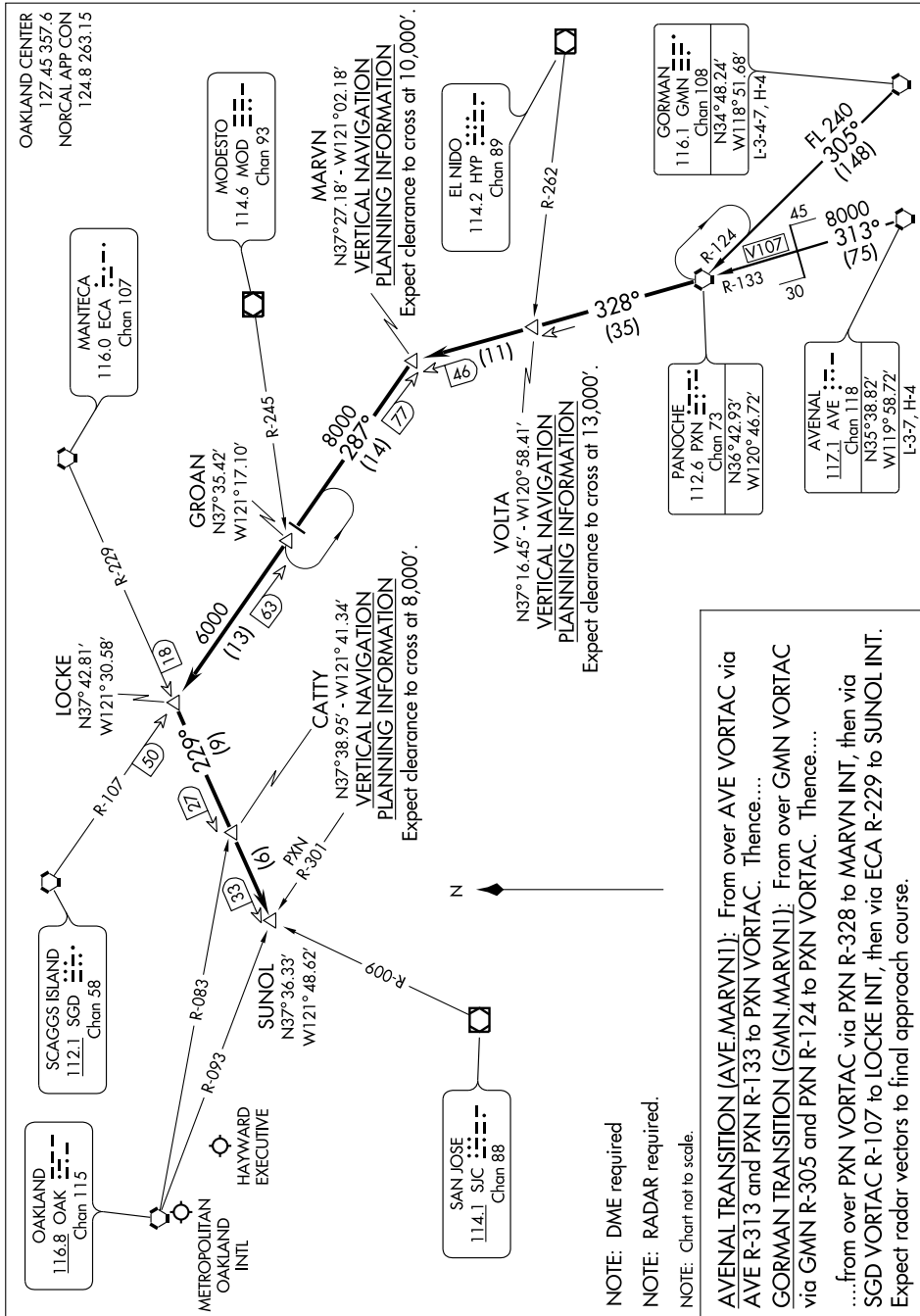
SW-2, 14 JAN 2010 to 11 FEB 2010

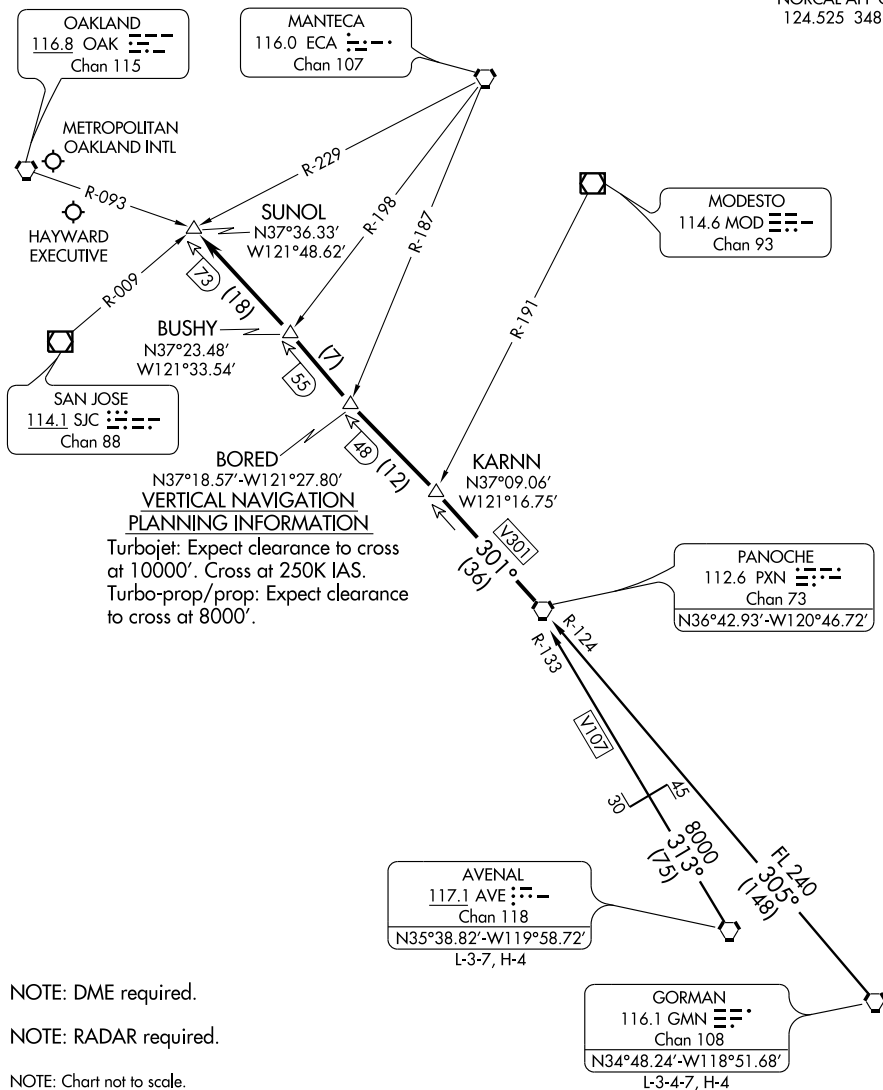


MARVN ONE ARRIVAL

ST-294 (FAA)

OAKLAND, CALIFORNIA

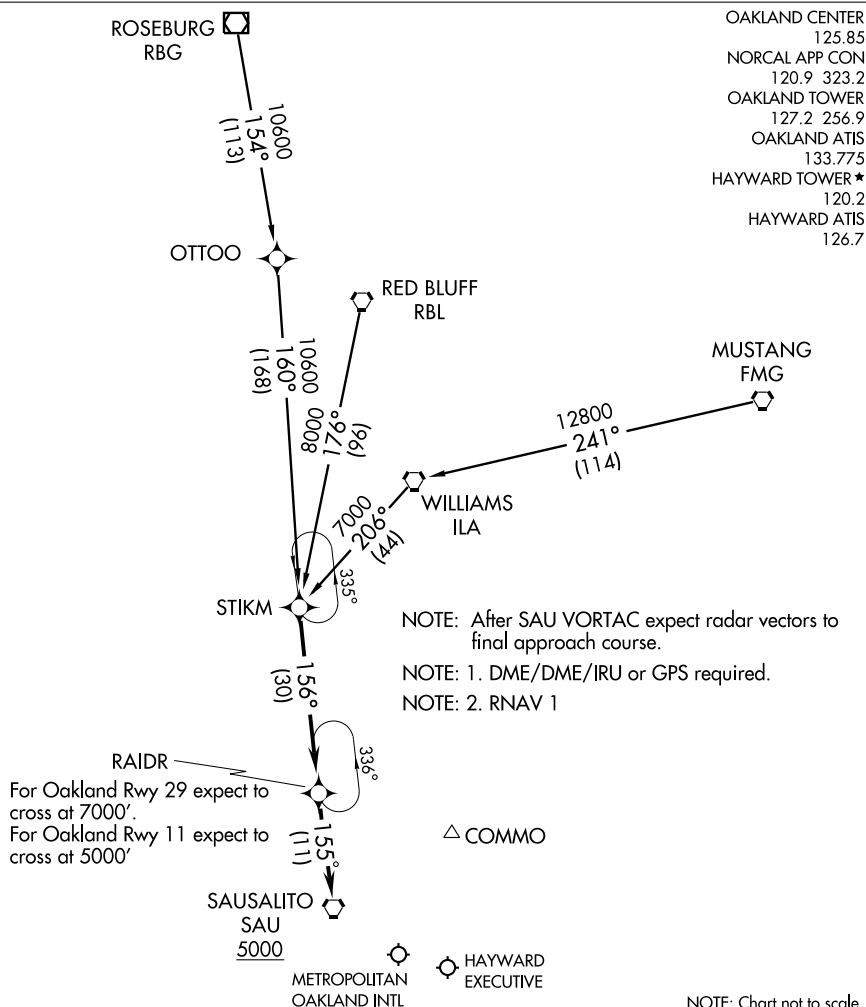


NORCAL APP CON
124.525 348.675

AVENAL TRANSITION (AVE.PXN2): From over AVE VORTAC via AVE R-313 and PXN R-133 to PXN VORTAC. Thence....

GORMAN TRANSITION (GMN. PXN2): From over GMN VORTAC via GMN R-305 and PXN R-124 to PXN VORTAC. Thence....

....From over PXN VORTAC via PXN R-301 to SUNOL INT. Expect radar vectors to the final approach course.



MUSTANG TRANSITION (FMG.RAIDR2)

RED BLUFF TRANSITION (RBL.RAIDR2)

ROSEBURG TRANSITION (RBG.RAIDR2)

From over STIKM WP via 156° track to RAIDR WP, thence as depicted to cross SAU VORTAC at or above 5000. Expect radar vectors to final approach course.

LOST COMMUNICATIONS:

Depart SAU VORTAC and proceed direct to COMMO INT.

RNAV (GPS) Y RWY 28L
HAYWARD EXECUTIVE(HWD)

- T** Circling NA north of Rwy 10L-28R. DME/DME RNP-0.3 NA.
A If local altimeter setting not received, use Oakland altimeter setting and increase all MDAs 20 feet. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2000 direct EROTE and via 292° track to OAK VORTAC and hold.

ATIS
126.7

NORCAL APP CON
124.4 351.8

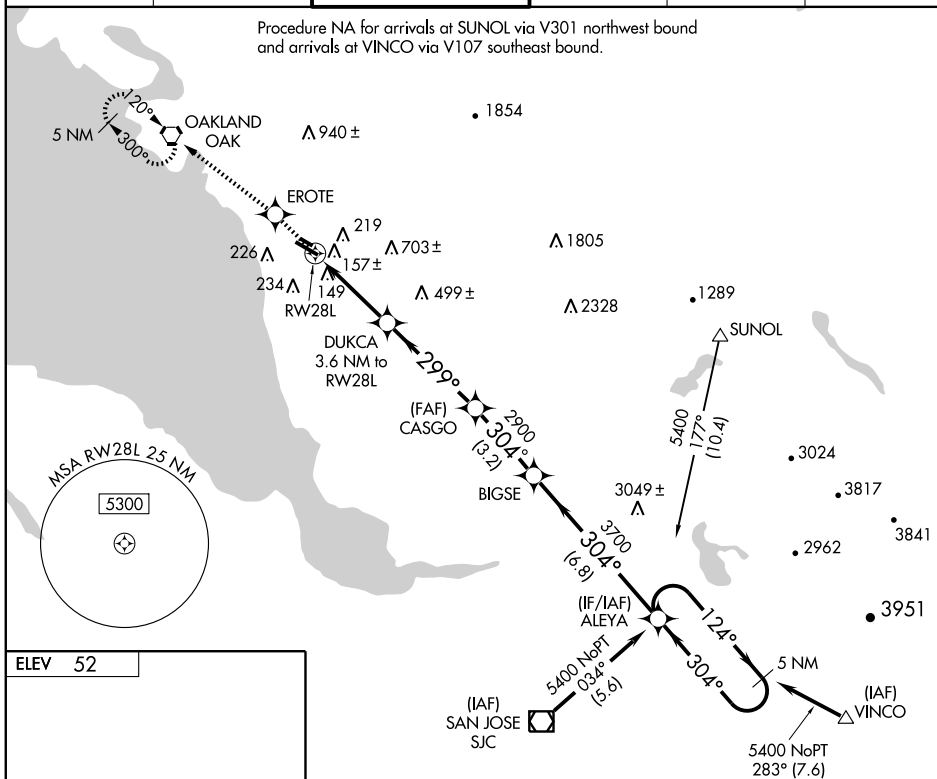
HAYWARD TOWER ★
120.2 (CTAF) **L** 257.8

GND CON
121.4

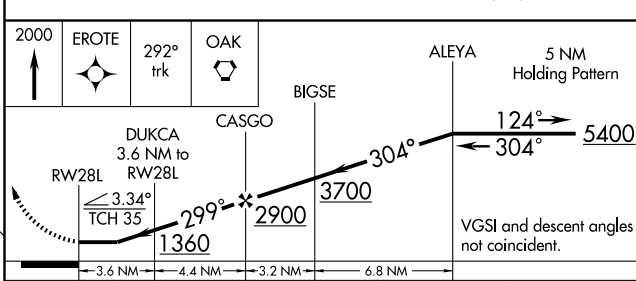
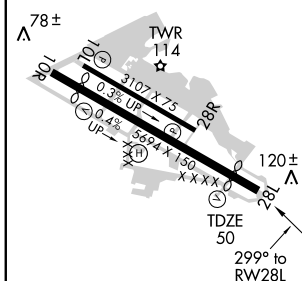
CLNC DEL
128.05

UNICOM
122.95

Procedure NA for arrivals at SUNOL via V301 northwest bound and arrivals at VINCO via V107 southeast bound.



ELEV	52
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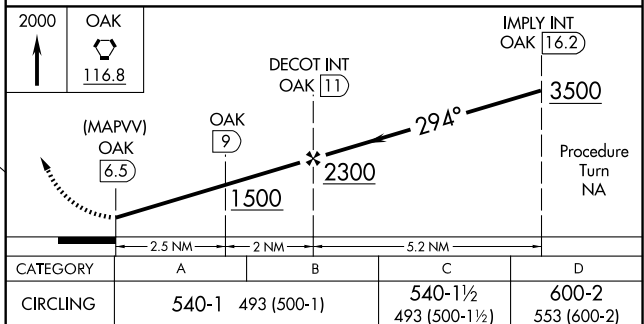
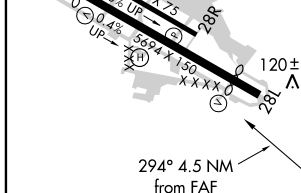
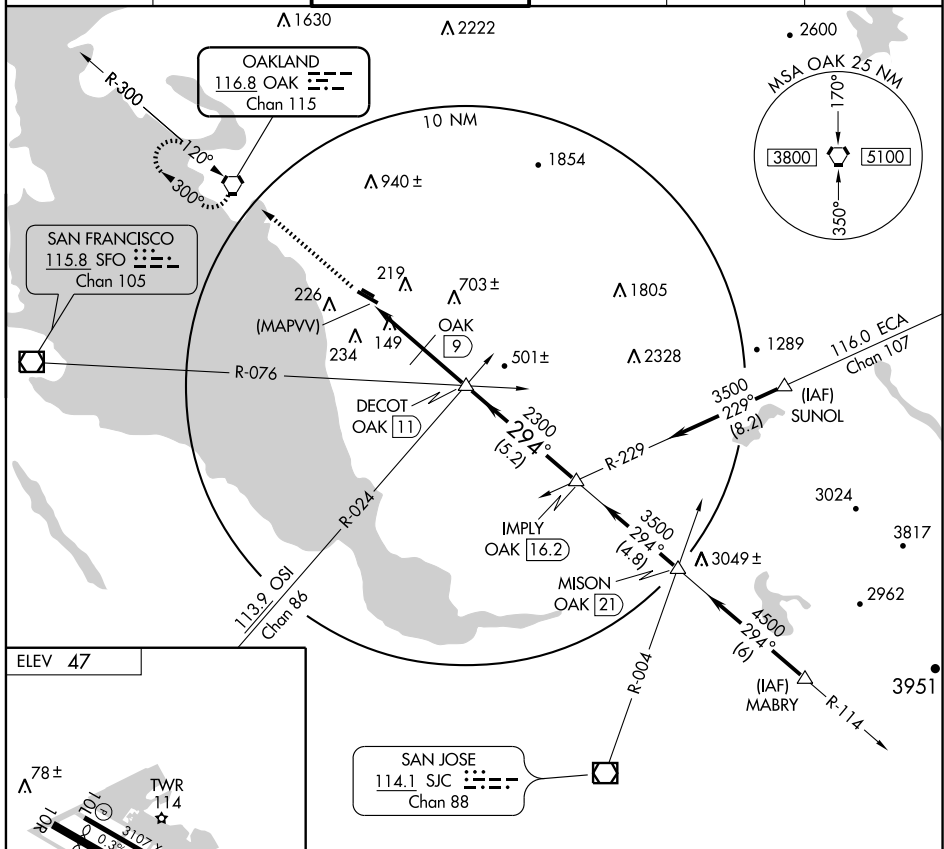


CATEGORY	A	B	C	D
LNAV MDA	460-1	410 (500-1)	460-1½	410 (500-1½)
CIRCLING	540-1	488 (500-1)	540-1½ 488 (500-1½)	620-2 568 (600-2)

MIRL Rwy 10R-28L **L**
MIRL Rwy 10L-28R
REIL Rwy 10R and 28L

VOR/DME or GPS-B
HAYWARD EXECUTIVE (HWD)

MISSED APPROACH: Climb to 2000 direct to OAK VORTA and hold.

UNICOM
122.95

SW-2. 14 JAN 2010 to 11 FEB 2010

MIRL Rwy 10R-28L **L**
MIRL Rwy 10L-28R
REIL Rwy 10R and 28L

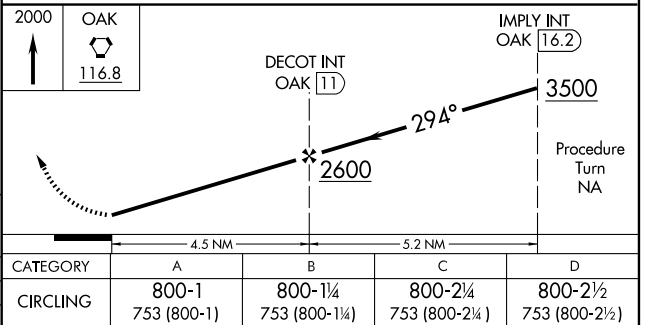
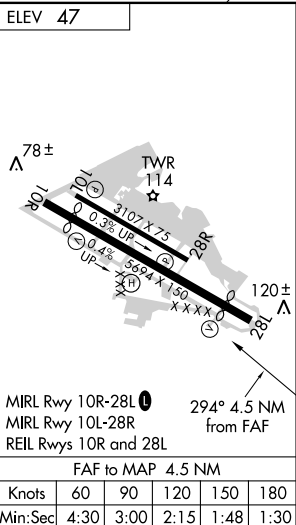
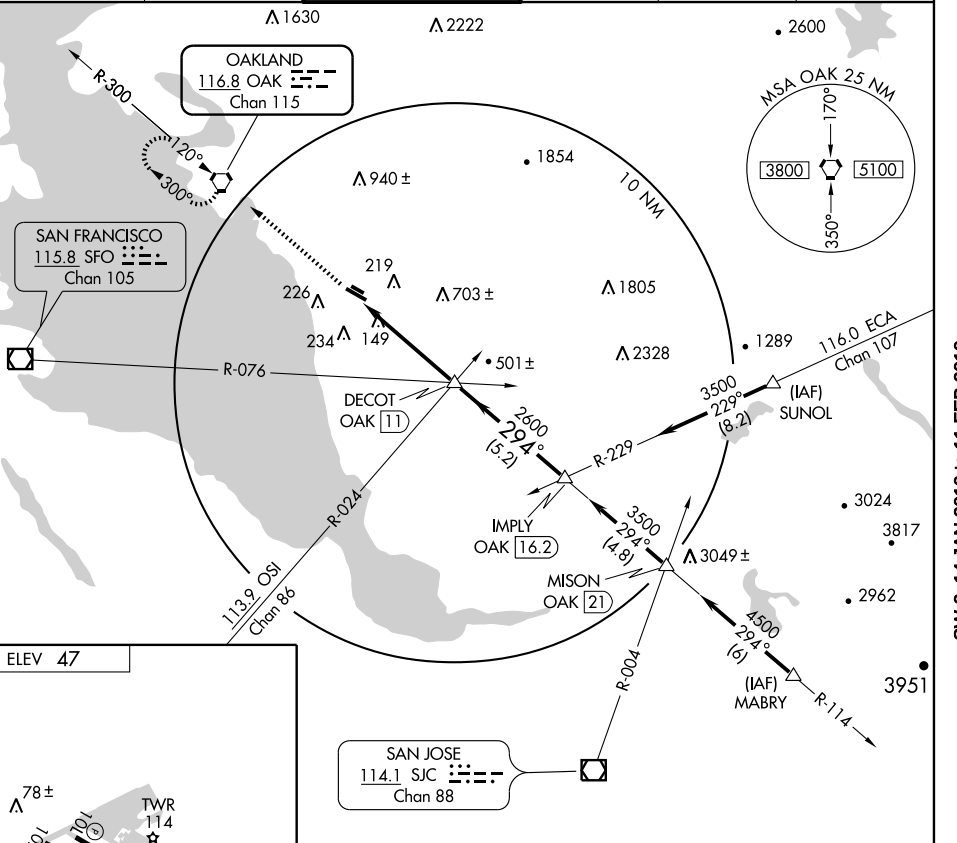
⚠

⚠

Circling not authorized north of Rwy 10L-28R.

MISSED APPROACH: Climb to 2000 direct to OAK VORTAC and hold.

ATIS 126.7	NORCAL APP CON 124.4 351.8	HAYWARD TOWER ★ 120.2 (CTAF) 0 257.8	GND CON 121.4	CLNC DEL 128.05	UNICOM 122.95
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SW-2, 14 JAN 2010 to 11 FEB 2010

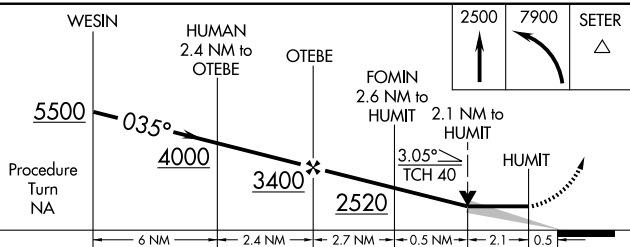
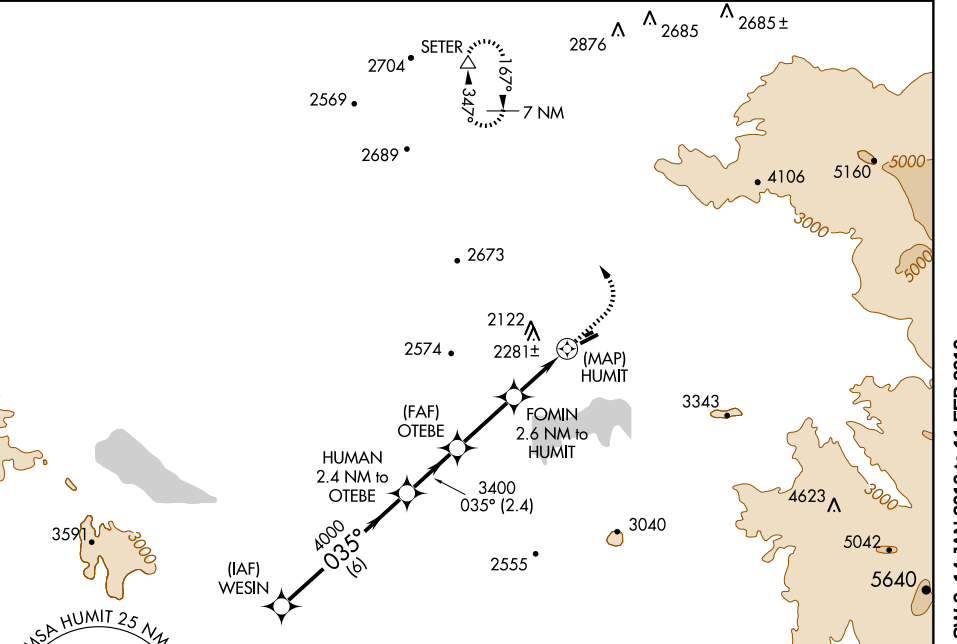
APP CRS	Rwy Idg	4314
035°	TDZE	1505
	Apt Elev	1512

RNAV (GPS) RWY 5

HEMET-RYAN (HMT)

NA	DME/DME RNP- 0.3 NA. Circling NA at night.	MISSED APPROACH: Climb to 2500, then climbing left turn to 7900 direct SETER and hold, continue climb-in-hold to 7900.
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AWOS-3 118.375	MARCH APP CON ★ 133.5 324.1	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
LNNAV MDA	2360-1 855 (900-1)	2360-1¼ 855 (900-1¼)	2360-2½ 855 (900-2½)	NA
CIRCLING	2360-1 848 (900-1)	2400-1¼ 888 (900-1¼)	2600-3 1088 (1100-3)	NA

ELEV 1512

TDZE 1505

Rwy 4-22 restricted for glider operations.

MRL Rwy 5-23

APCH CRS **262°**
 Rwy Idg **10,000**
 TDZE **4012**
 Arpt Elev **4012**

AL-6624 [USA]

AMEDEE AAF (KAHC)



DME/DME RNP-0.3 NA.

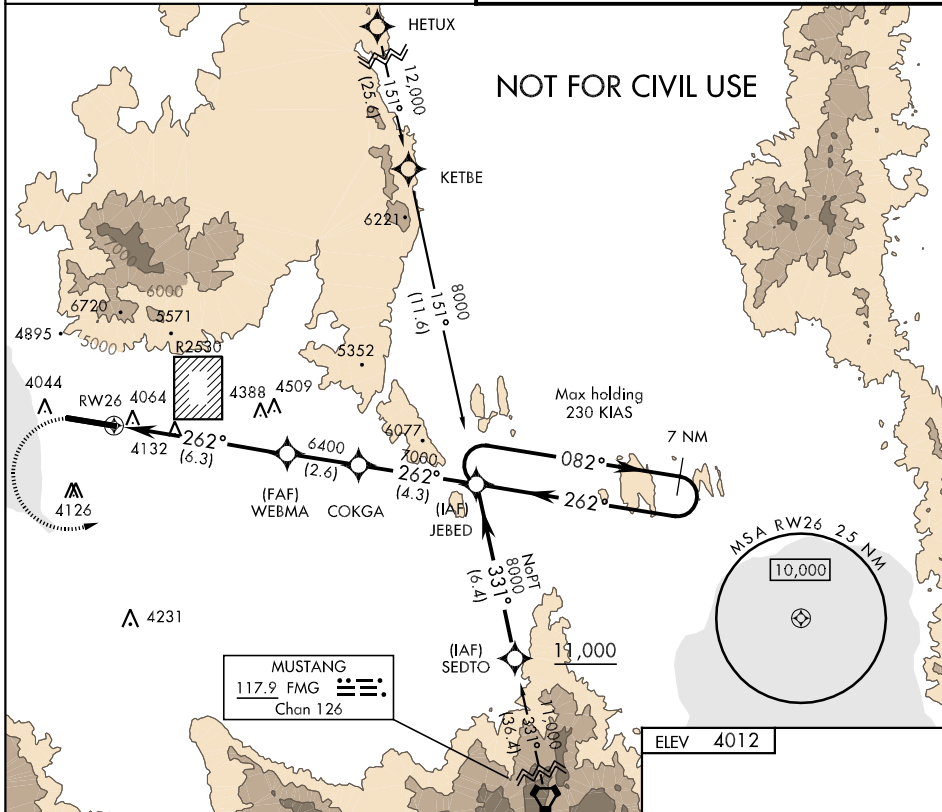
Procedure not authorized at night.

** Circling NA for CATS DE north of Rwy 8-26.

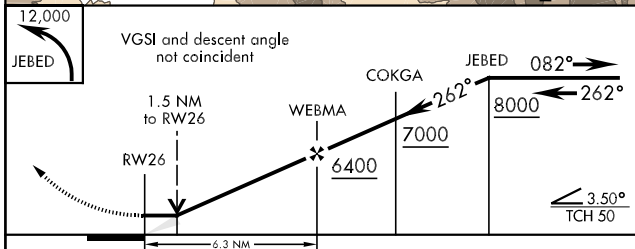
MISSED APPROACH: Climbing left turn to 12,000 direct JEBED and hold, continue climb-in-hold to 12,000. When authorized by ATC, climb in hold to 14,000.

OAKLAND CENTER
128.8 285.5

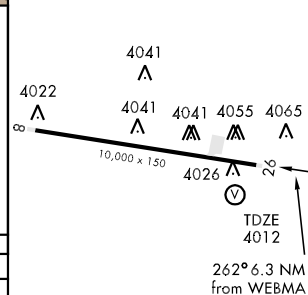
CTAF

126.1 241.9 0*

SW-2, 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D	E
LNAV MDA	4600-1 588 (600-1)		4600-1½ 588 (600-1½)	4600-1¾ 588 (600-1¾)	4600-2 588 (600-2)
CIRCLING **	4600-1 588 (600-1)		4600-1½ 588 (600-1½)	4600-2 588 (600-2)	



LIRL Rwy 26 0*

VOR/DME AHC 109.0 Chan 27	APCH CRS 268°	Rwy Idg 10,000 TDZE 4012 Arpt Elev 4012
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AL-6624 [USA]

AMEDEE AAF (KAHC)

Procedure not authorized at night.

** Circling NA for CATS DE north of Rwy 8-26.

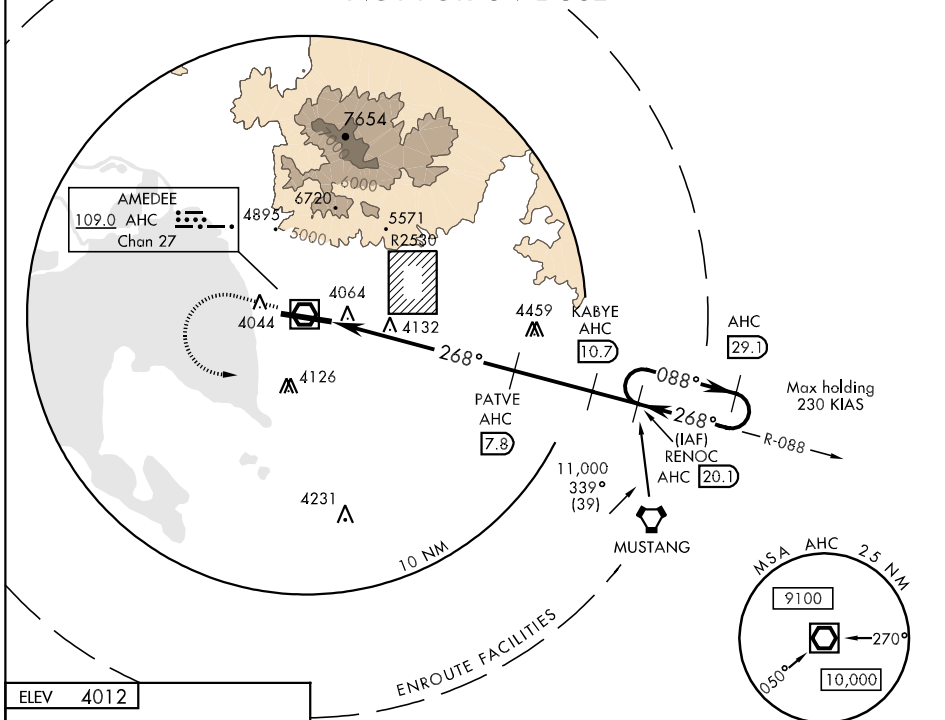
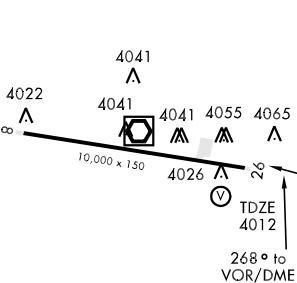
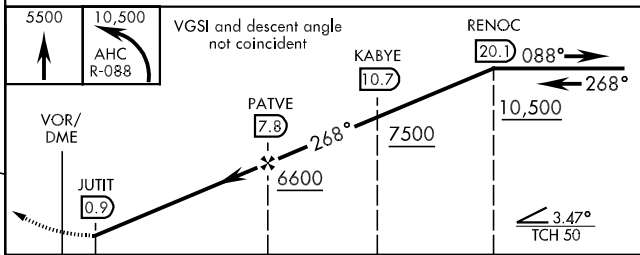
MISSED APPROACH: Climb to 5500, then climbing left turn to 10,500 via AHC R-088 to RENOC (20.1 DME) and hold, continue climb-in-hold to 10,500. When authorized by ATC, climb-in-hold to 14,000.

OAKLAND CENTER
128.8 285.5

CTAF

126.1 241.9 0*

NOT FOR CIVIL USE

ELEV **4012**LIRL Rwy 26 **0***

CATEGORY	A	B	C	D	E
S-26	4620-1 608 (700-1)		4620-1¾ 608 (700-1¾)	4620-2 608 (700-2)	4620-2¼ 608 (700-2¼)
CIRCLING **	4620-1 608 (700-1)		4620-1¾ 608 (700-1¾)	4620-2 608 (700-2)	4620-2¼ 608 (700-2¼)

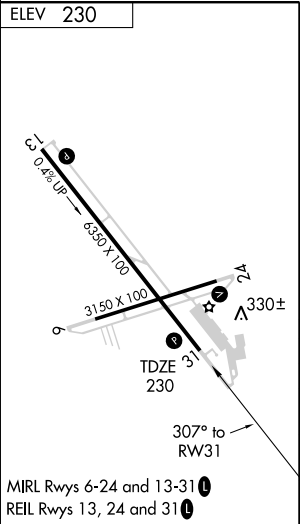
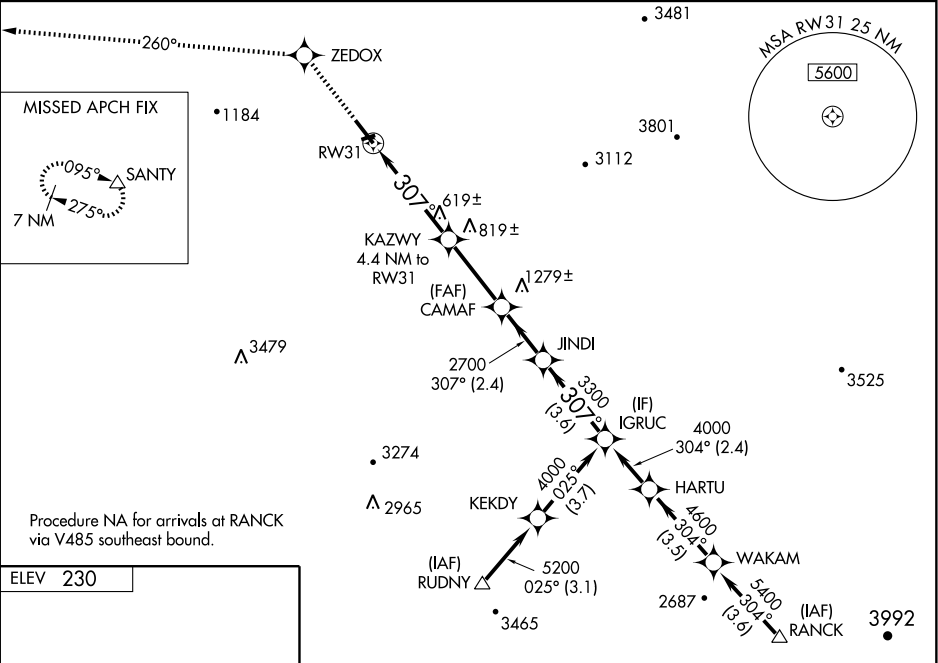
WAAS CH 93806 W31A	APP CRS 307°	Rwy Idg TDZE 230 Apt Elev 230
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RNAV (GPS) RWY 31
HOLLISTER MUNI (CVH)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Baro-VNAV NA when using Norman Y. Mineta (KSJC) San Jose Intl altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 54°C (130°F).
When local altimeter setting not received, use Norman Y. Mineta (KSJC) San Jose Intl altimeter setting, and increase all DAs/MDAs 120 feet and all visibilities ½ mile.
VDP NA when using Norman Y. Mineta (KSJC) San Jose Intl altimeter setting.

MISSED APPROACH: Climb to 7000 direct ZEDOX and via 260° track to SANTY and hold, continue climb-in-hold to 7000.

AWOS-3 120.425	NORCAL APP CON 124.525 348.675	UNICOM 123.0 (CTAF) 0
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7000	ZEDOX	260° track	SANTY	Procedure Turn NA
*LNAV only	KAZWY 4.4 NM to RW31	CAMAF	JINDI	IGRUC
	1.9 NM to RW31	1580	2700	307° 4000
	1.9 NM	2.5 NM	3.1 NM	2.4 NM
	3.6 NM			
CATEGORY	A	B	C	D
LPV DA	553-1¼	323 (400-1¼)		NA
LNAV/VNAV DA	801-2	571 (600-2)		NA
LNAV MDA	880-1	650 (700-1)	880-1¾ 650 (700-1¾)	NA
CIRCLING	880-1	650 (700-1)	880-1¾ 650 (700-1¾)	NA

NDB HGT
209APCH CRS
295°Rwy Idg
TDZE **1017**
Arpt Elev **1017**

AL-3073 [USA]

TUSI AHP (KHGT)

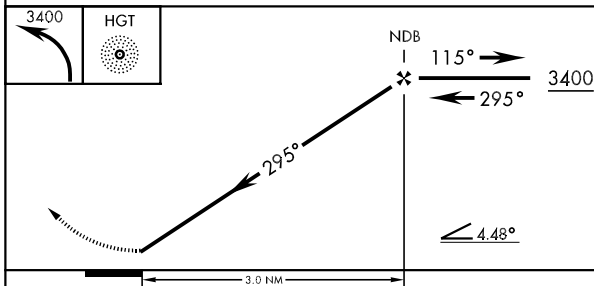
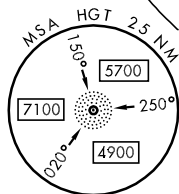
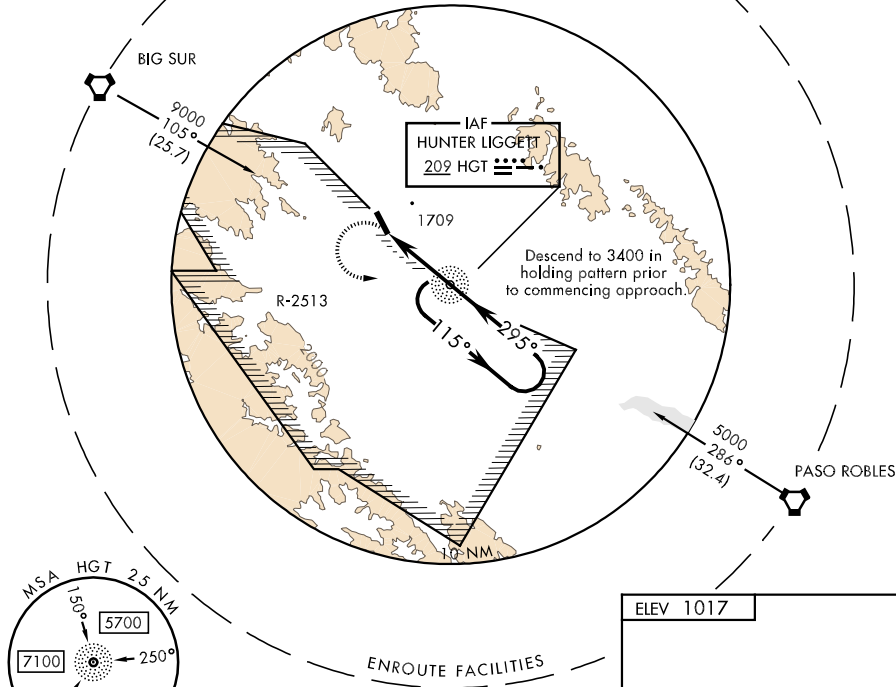
▲ NA Procedure NA when Fort Hunter-Liggett altimeter setting not available.

MISSED APPROACH: Climbing left turn to 3400 direct HGT NDB and hold.

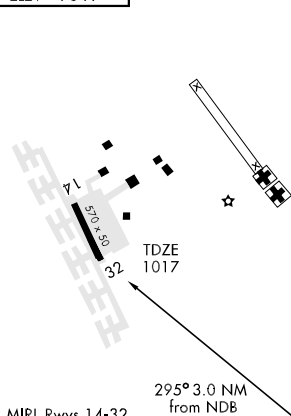
OAKLAND CENTER
128.7 307.0

RANGE CON/OPS
41.05 126.2 229.5

NOT FOR CIVIL USE



ELEV 1017



MIRL Rwy 14-32

295° 3.0 NM from NDB

CATEGORY	COPTER		
H-32	1980-¾	963	(1000-¾)

FAF to MAP 3.0 NM					
Knots	45	60	75	90	105
Min:Sec	4:00	3:00	2:24	2:00	1:43

APCH CRS	Rwy Idg	570
301°	TDZE	1017
	Arpt Elev	1017

AL-3073 (USA)

TUSI AHP (KHGT)

▲ NA Procedure NA when Fort Hunter-Liggett altimeter setting not available.
▼ Limit Final and Missed Approach to 90 KIAS.

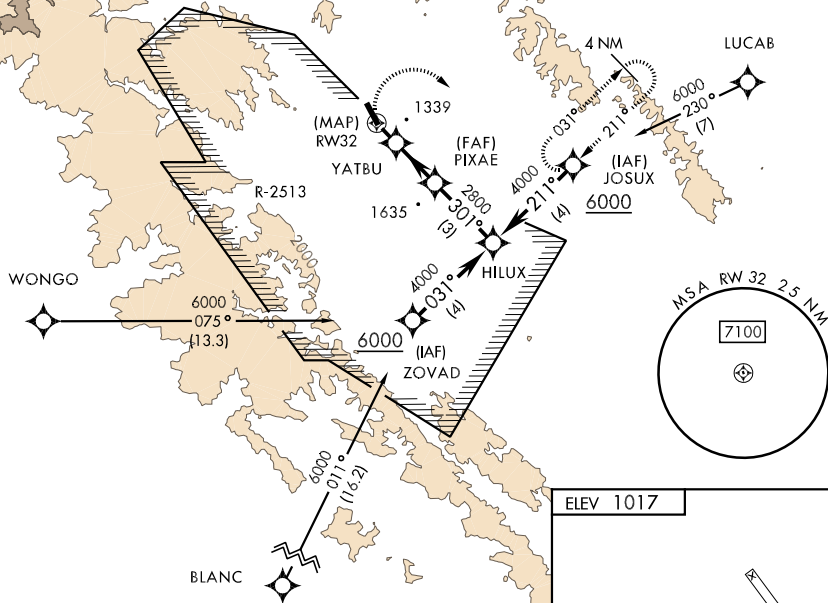
MISSSED APPROACH: Climbing right turn to 6000 direct JOSUX and hold.

OAKLAND CENTER
128.7 307.0

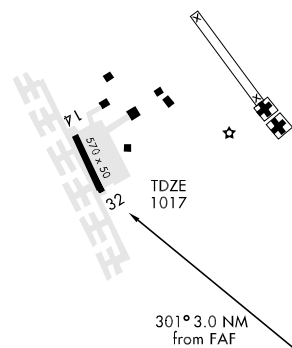
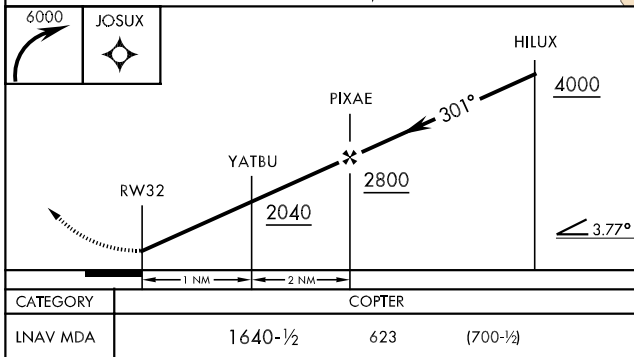
RANGE CON/OPS
41.05 126.2 229.5

NOT FOR CIVIL USE

DME/DME RNP-0.3 NA



ELEV 1017



MRL Rwy 14-32

TACAN NRS Chan 29	APCH CRS 255°	Rwy Idg 4999 TDZE 23 Arpt Elev 24
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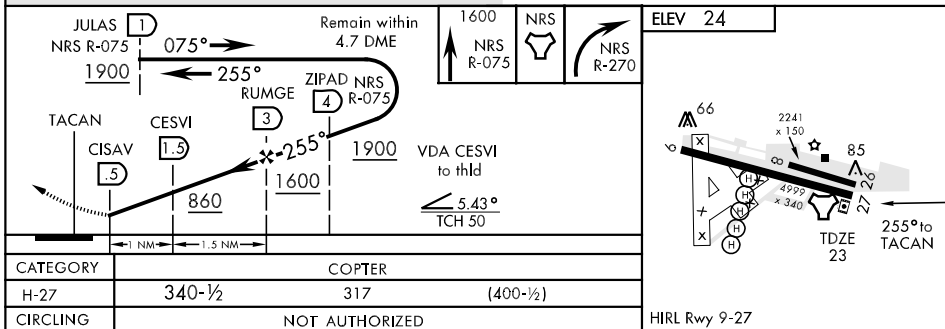
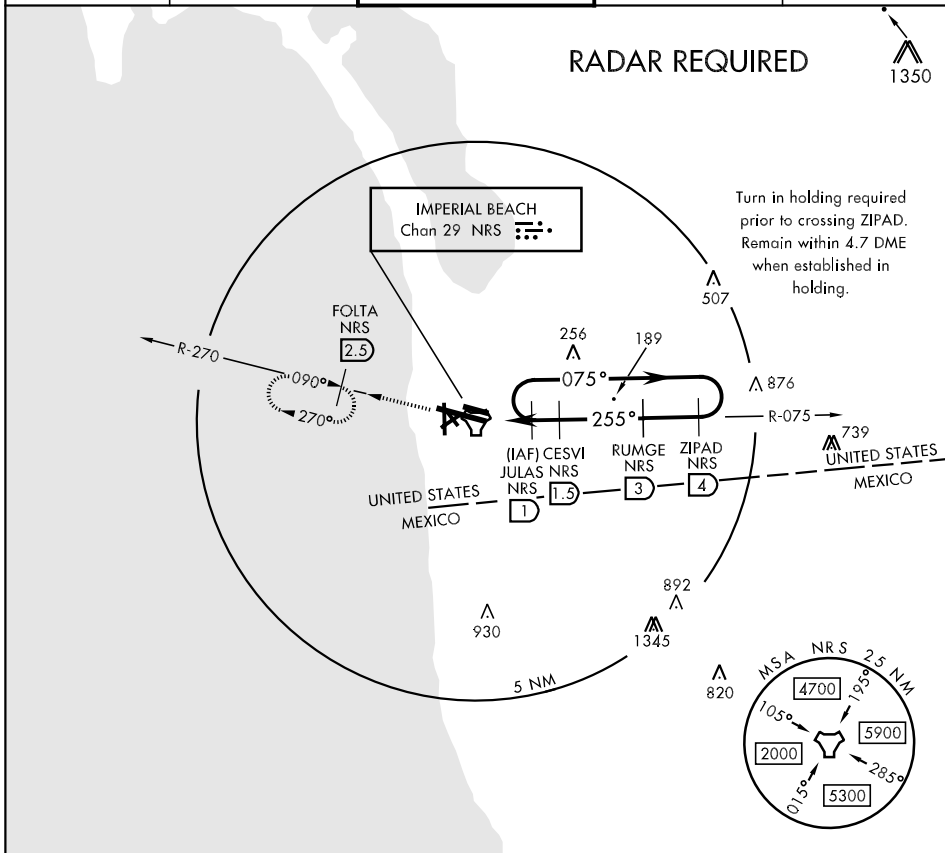
AL-307 [USN]

IMPERIAL BEACH NOLF (REAM FIELD) (KNRS)

Use by tilt rotor aircraft not authorized.

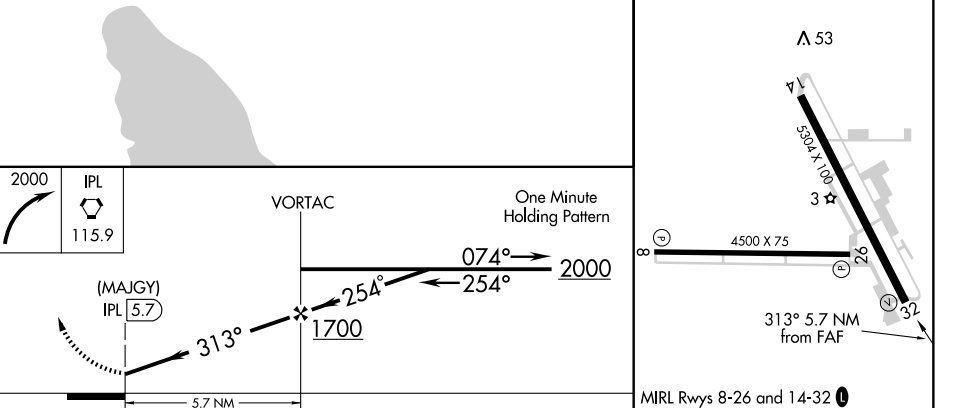
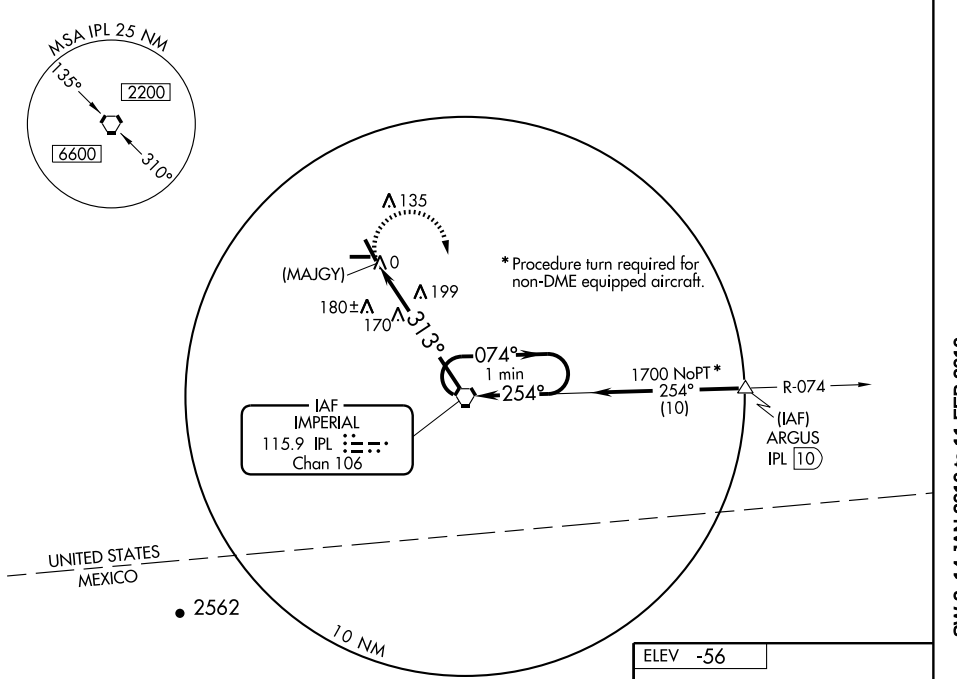
MISSED APPROACH: Climb to 1600 via NRS R-075 to NRS TACAN, then via NRS R-270 to FOLTA and hold. Remain within 5.2 DME when established in holding.

ATIS ★ 276.2	SOCAL APP CON 125.15 317.55	IMPERIAL BEACH TOWER ★ 120.65 239.25	GND CON 285.575	ASOS
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MISSED APPROACH: Climbing right turn to 2000 direct IPL VORTAC and hold.

ASOS 132.175	LOS ANGELES CENTER 128.6 291.7	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 5.7 NM					
CIRCLING	560-1	616 (700-1)	560-1 ³ / ₄ 616 (700-1 ³ / ₄)	560-2 616 (700-2)	Knots	60	90	120	150	180
					Min:Sec	5:42	3:48	2:51	2:17	1:54

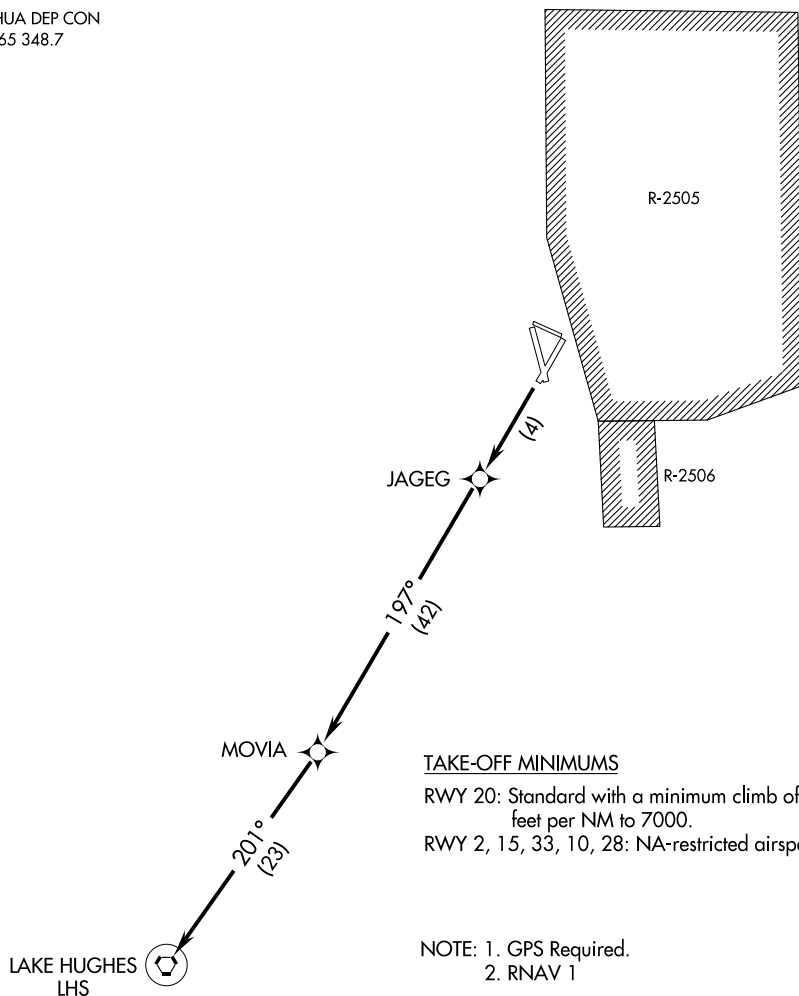
(LHS2.LHS) 09127

SL-5417 (FAA)

INYOKERN (IYK)
INYOKERN, CALIFORNIA

LAKE HUGHES TWO DEPARTURE (RNAV) (OBSTACLE)

JOSHUA DEP CON
133.65 348.7



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 20: Climb direct JAGEG then continue climb to 8000 via 197° track to MOVIA and 201° track to LHS VORTAC. Thence via assigned route and altitude.

TAKE-OFF RUNWAYS 2, 33, 15, 10, and 28: NA.

SW-3, 14 JAN 2010 to 11 FEB 2010

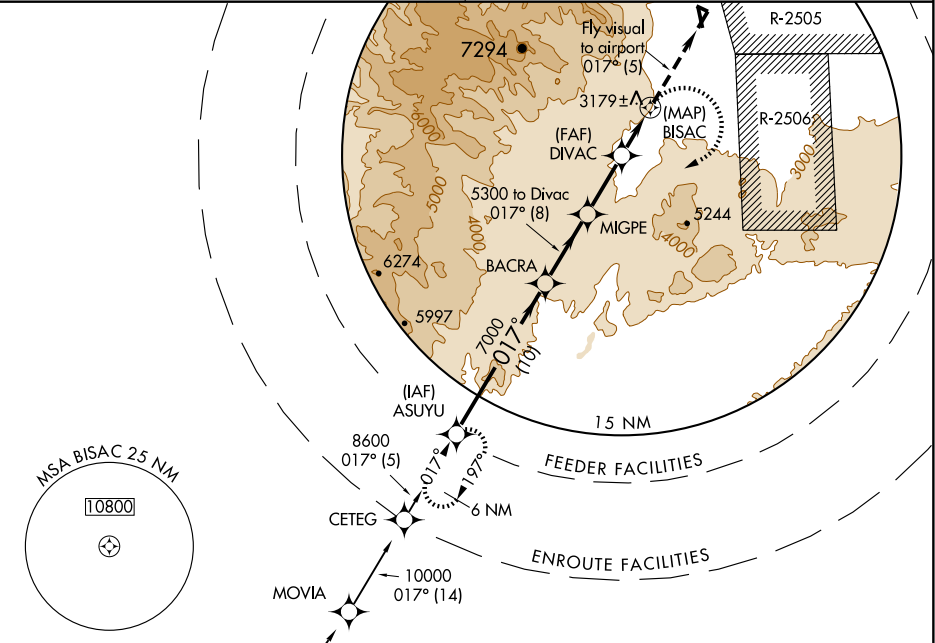
APP CRS	Rwy Idg	6275
017°	TDZE	2442
	Apt Elev	2457

RNAV (GPS) Y RWY 2
INYOKERN (IYK)

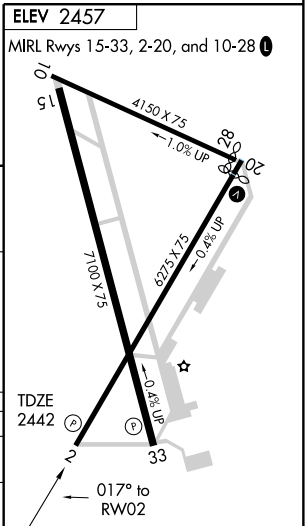
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Except for operators with approved weather reporting service, use NAS China Lake altimeter setting, if not available procedure NA.
Procedure NA at night.

MISSED APPROACH: Climbing right turn to 8600 direct MIGPE WP then left turn via 197° track to ASUYU WP and hold.

JOSHUA APP CON 133.65 348.7	UNICOM 122.8 (CTAF)
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Procedure Turn NA	ASUYU		BACRA		DIVAC		MIGPE		ASUYU	
	8600				7000		5300		3244	
	017°				017°		017°		197°	
	10 NM		8 NM		3 NM		5 NM			
CATEGORY	A		B		C		D			
LNAV MDA	4100-2		1658 (1700-2)		4100-3		1658 (1700-3)		NA	
CIRCLING	4100-2		1643 (1700-2)		4100-3		1643 (1700-3)		NA	



APP CRS	Rwy Idg	6275
017°	TDZE	2442
	Apt Elev	2457

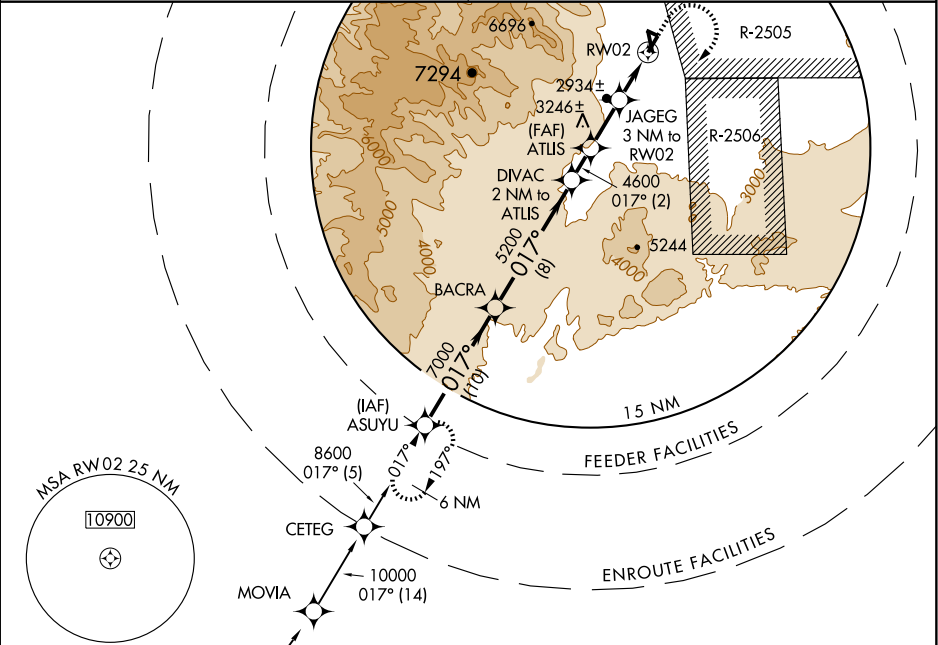
RNAV (GPS) Z RWY 2

INYOKERN (IYK)

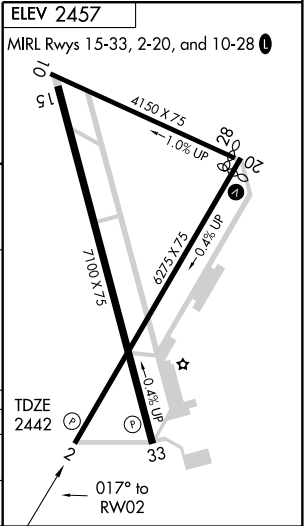
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Except for operators with approved weather reporting services, use NAS China Lake altimeter setting, if not available procedure NA.
Procedure NA at night. Procedure NA when R-2505 or R-2506 active.

MISSED APPROACH: Climb to 4000 then climbing right turn to 8600 direct ASUYU WP and hold.

JOSHUA APP CON 133.65 348.7	UNICOM 122.8 (CTAF) 1
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ASUYU	BACRA	DIVAC 2 NM to ATLIS	ATLIS	JAGEG 3 NM to RW02	RW02
8600	7000	5200	4600	3540	
Procedure Turn NA					
10 NM 8 NM 2 NM 3 NM 3 NM					
CATEGORY	A	B	C	D	
RNAV MDA	3160-1	718 (800-1)	3160-2 718 (800-2)	NA	
CIRCLING	3160-1	703 (800-1)	3160-2 703 (800-2)	NA	



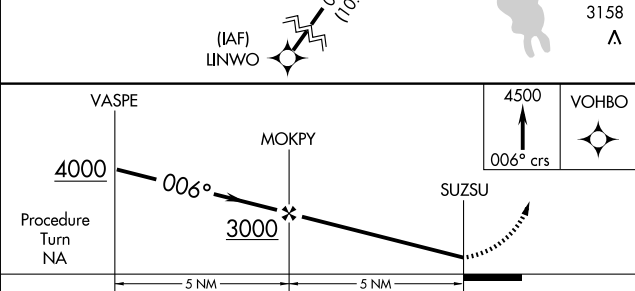
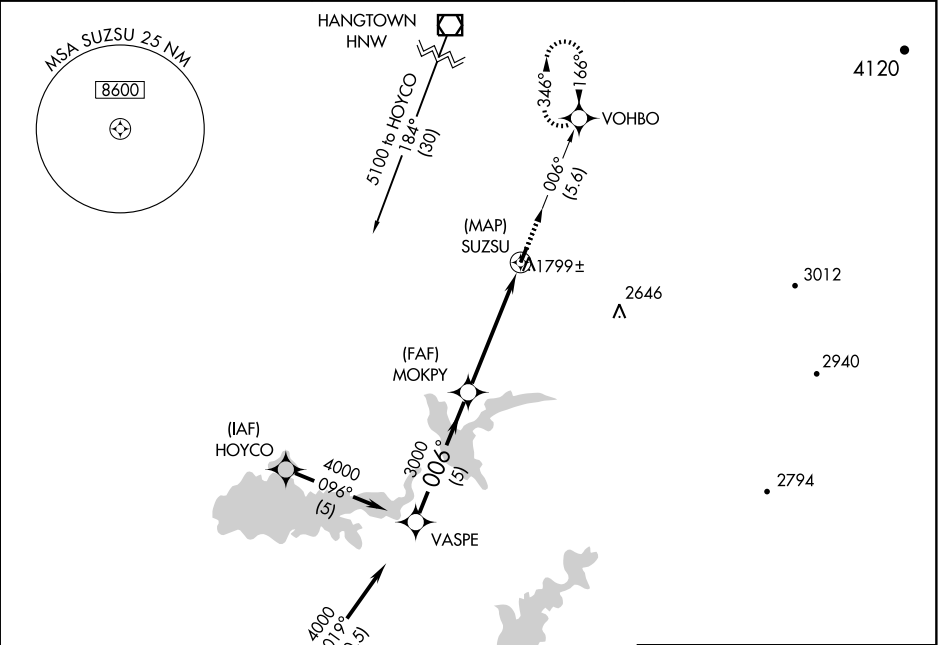
APP CRS	Rwy Idg	3401
006°	TDZE	1690
	Apt Elev	1690

GPS RWY 1

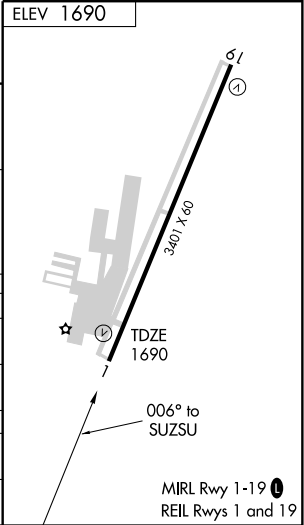
JACKSON/ WESTOVER FIELD AMADOR COUNTY(JA.Q)

 If local altimeter not received, use Sacramento Executive altimeter setting.	MISSED APPROACH: Climb to 4500 via 006° course to VOHBO WP and hold.
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AWOS-3 121.125	NORCAL APP CON 125.1 363.2	UNICOM 123.075 (CTAF) ①
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CATEGORY	A	B	C	D
S-1	2060-1	370 (400-1)		NA
CIRCLING	2200-1	510 (600-1)		NA
SACRAMENTO EXECUTIVE ALTIMETER SETTING MINIMUMS				
S-1	2380-1	690 (700-1)		NA
CIRCLING	2520-1 830 (900-1)	2520-1¼ 830 (900-1¼)		NA



VORTAC LIN 114.8 Chan 95	APP CRS 012°	Rwy Idg 3401 TDZE 1690 Apt Elev 1690
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VOR/DME RWY 1

JACKSON/ WESTOVER FIELD AMADOR COUNTY(JAQ)

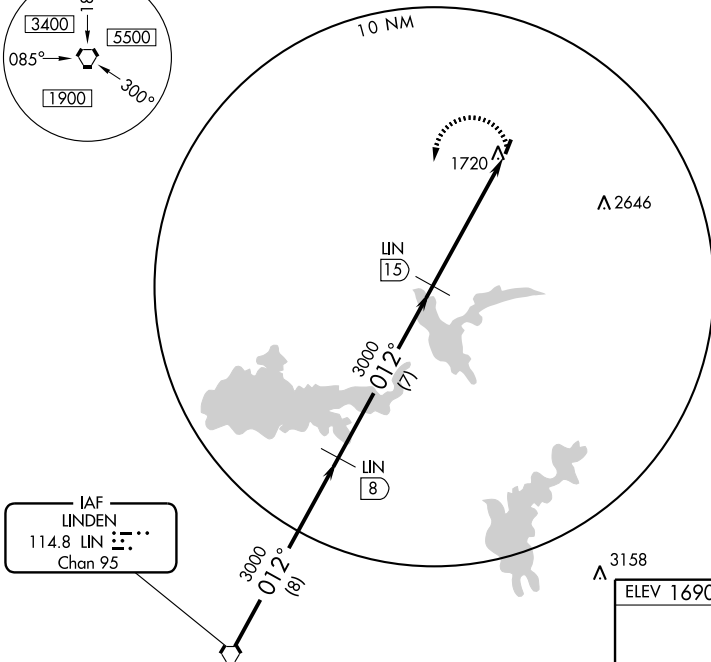
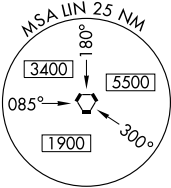
T If local altimeter not received, use Sacramento Executive
ANA altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 via LIN R-012 to LIN VORTAC.

AWOS-3
121.125

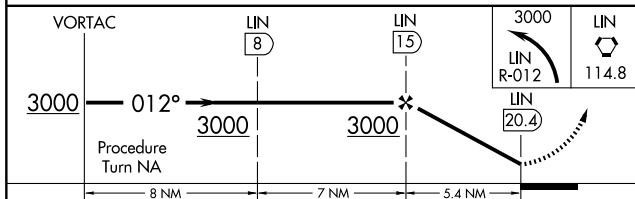
NORCAL APP CON
125.1 363.2

UNICOM
123.075 (CTAF) **L**

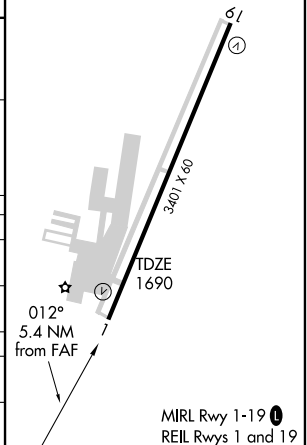


3158

ELEV 1690

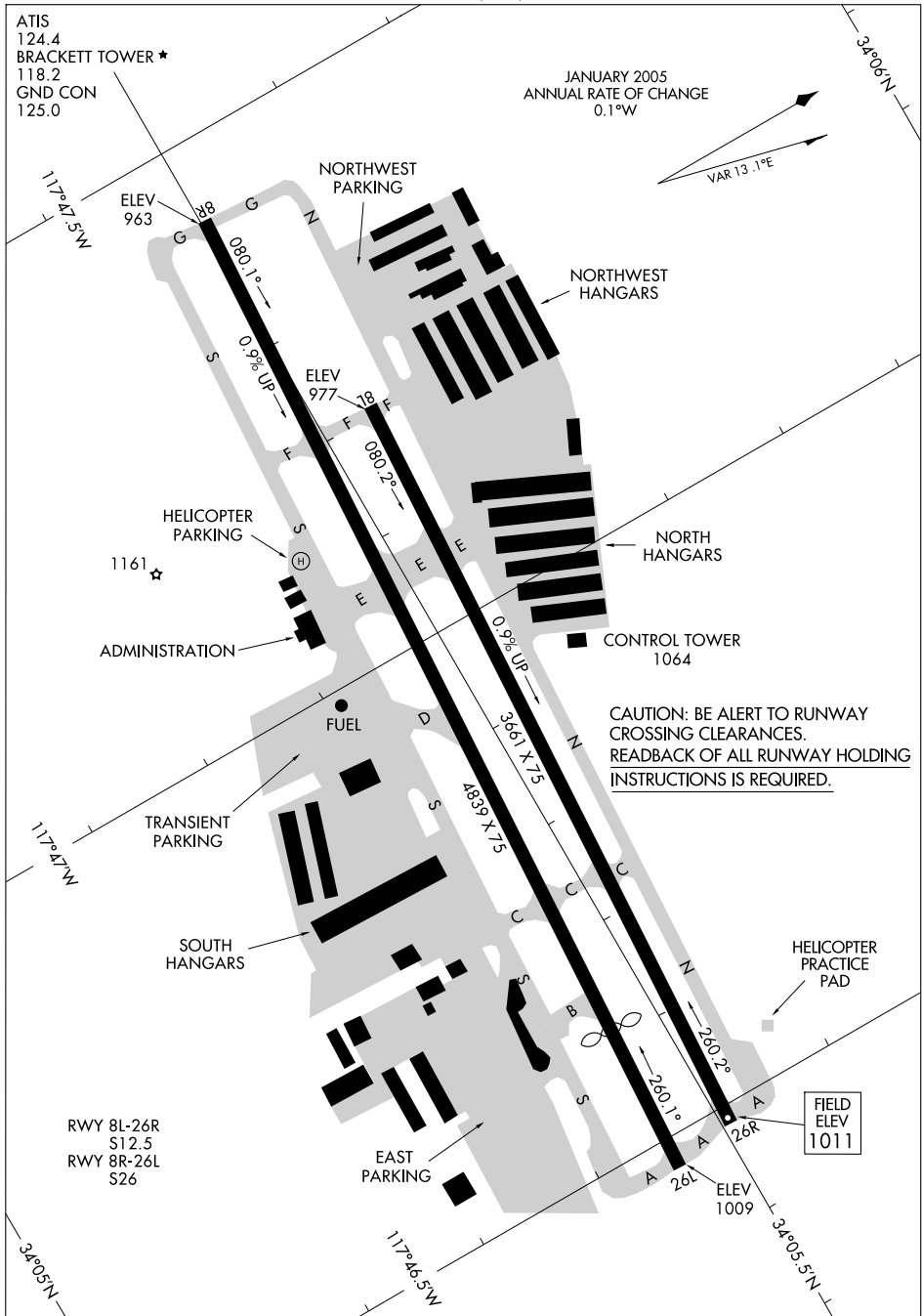


CATEGORY	A	B	C	D
S-1	2080-1 390 (400-1)	2080-1¼ 390 (400-1¼)	NA	
CIRCLING	2200-1 510 (600-1)	2200-1¼ 510 (600-1¼)	NA	
SACRAMENTO EXECUTIVE ALTIMETER SETTING MINIMUMS				
S-1	2380-1 690 (700-1)	2380-1¼ 690 (700-1¼)	NA	
CIRCLING	2520-1 830 (900-1)	2520-1¼ 830 (900-1¼)	NA	



AIRPORT DIAGRAM

AL-5218 (FAA)

LA VERNE/BRACKETT FIELD (POC)
LA VERNE, CALIFORNIA

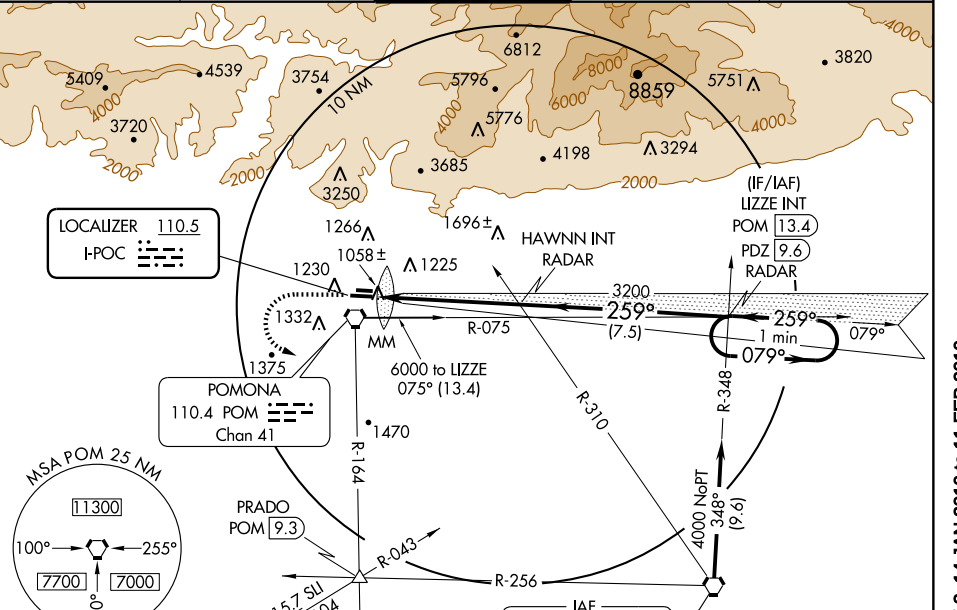
SW-3 14 JAN 2010 to 11 FEB 2010

▼ Visibility reduction by helicopters NA.

▲ When local altimeter setting not received, use Ontario Intl altimeter setting and increase DA to 1363.

MISSED APPROACH: Climb to 2100, then climbing left turn to 4000 via POM VORTAC R-164 to PRADO INT/POM 9.3 DME.

ATIS 124.4	SOCAL APP CON 125.5 349.0	BRACKETT TOWER ★ 118.2 (CTAF)	GND CON 125.0	UNICOM 122.95
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ELEV 1011

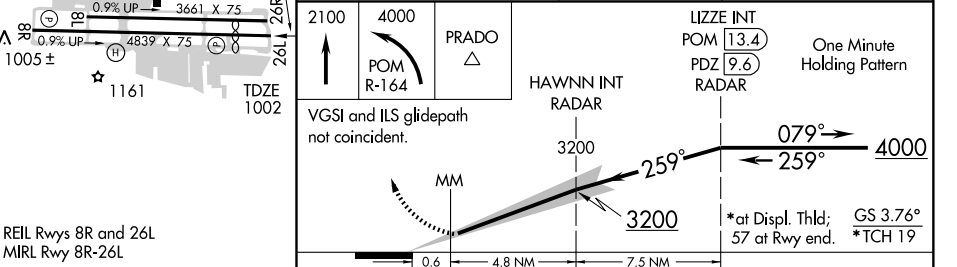
Rwy 26L Idg 4151'

Procedure NA for arrivals at PDZ VORTAC on airway radials 292 CW 030.

When GS not used, use LOC RWY 26L procedure.

ALTERNATE MISSED APCH FIX

PARADISE PDZ 112.2 Chan 59



REIL Rwy 8R and 26L	MIRL Rwy 8R-26L								
Knots	60	90	120	150	180				
Min:Sec									
CATEGORY	A	B	C	D					
S-ILS 26L	1332-1	330 (400-1)							

SW-3, 14 JAN 2010 to 11 FEB 2010

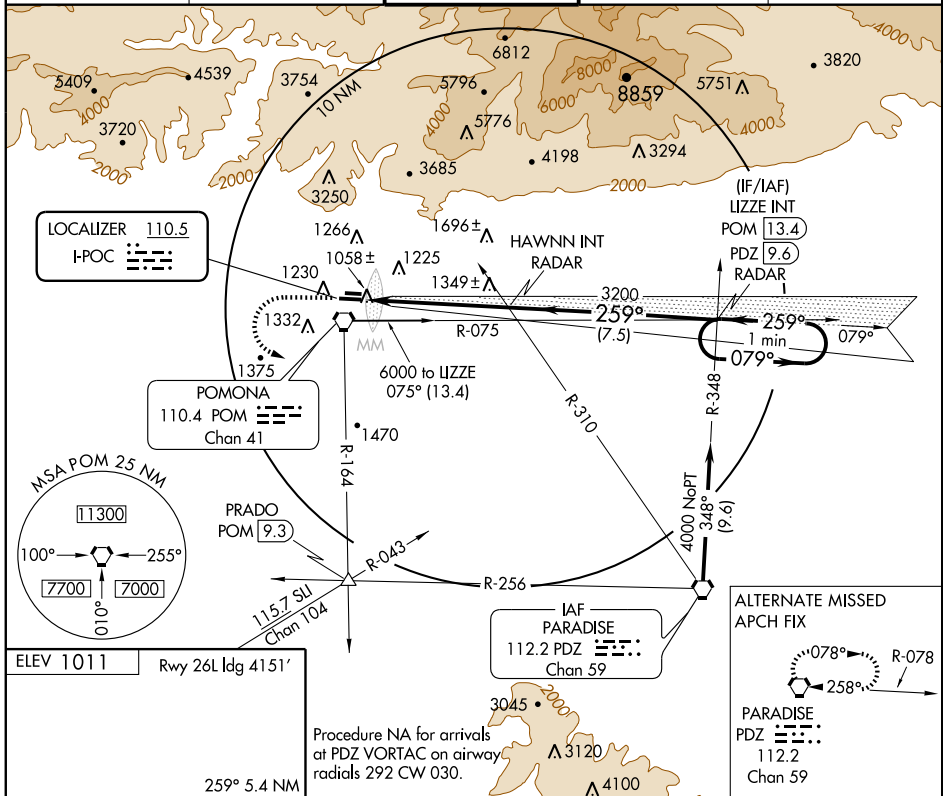
LOC I-POC <u>110.5</u>	APP CRS 259°	Rwy Idg 4151 TDZE 1002 Apt Elev 1011
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LOC RWY 26L

LA VERNE/BRACKETT FIELD (POC)

- | | |
|---|--|
| <p>V Visibility reduction by helicopters NA.</p> <p>A When local altimeter setting not received, use Ontario Int'l altimeter setting and increase all MDAs 40 feet.</p> | <p>MISSED APPROACH: Climb to 2100 then climbing left turn to 4000 via POM VORTAC R-164 to PRADO INT/POM 9.3 DME.</p> |
|---|--|

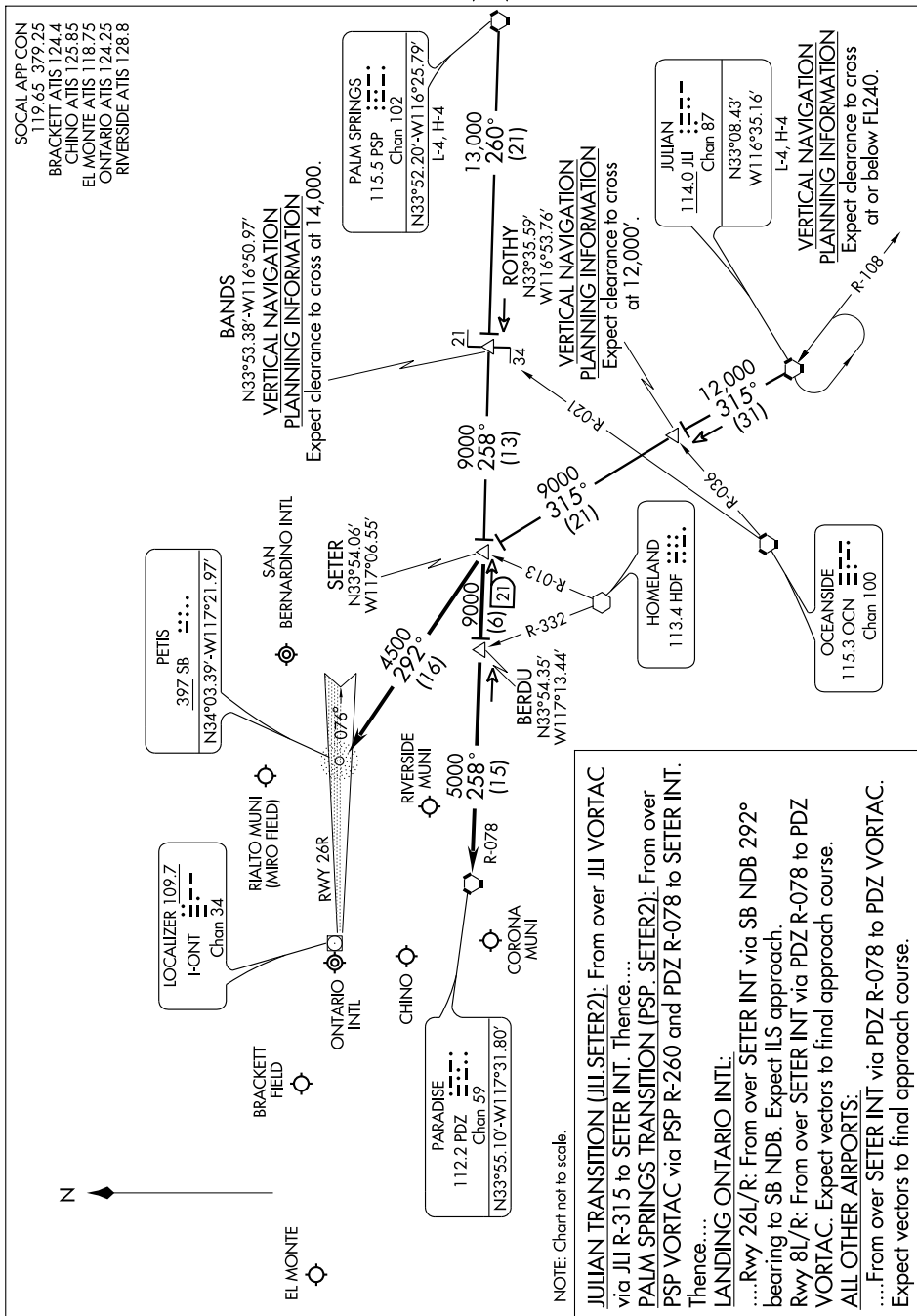
ATIS 124.4	SOCAL APP CON 125.5 349.0	BRACKETT TOWER★ 118.2 (CTAF)	GND CON 125.0	UNICOM 122.95
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[illegible]

SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA



VORTAC POM 110.4 Chan 41	APP CRS 344°	Rwy Idg TDZE Apt Elev	N/A N/A 1011
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VOR or GPS-A
LA VERNE/BRACKETT FIELD (POC)

T	When local altimeter setting not received, use
A	Ontario Intl altimeter setting and increase all
	MDA 40 feet and visibility Cat. C $\frac{1}{4}$ mile.

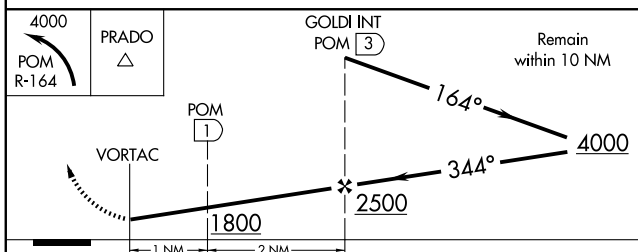
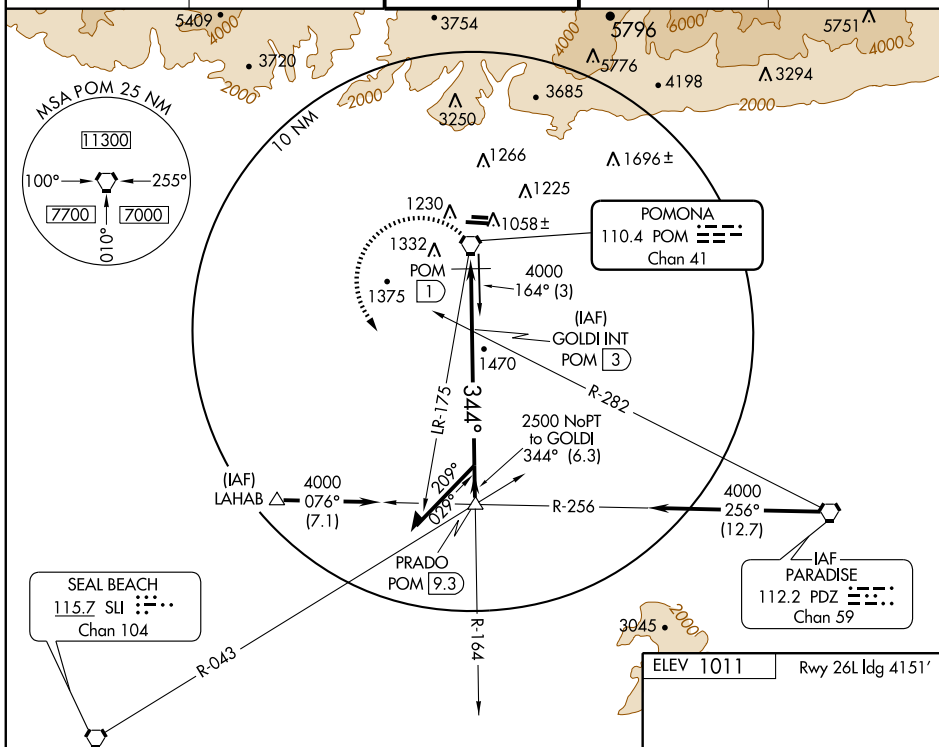
MISSED APPROACH: Climbing left turn to 4000 via POM R-164 to PRADO Int.

ATIS
124.4

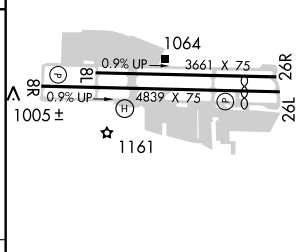
SOCAL APP CON
125.5 349.0

BRACKETT TOWER ★
118.2 (CTAF)

GND CON
125.0

UNICOM
122.95

CATEGORY	A	B	C	D
CIRCLING	1800-1 789 (800-1)	1800-1¼ 789 (800-1¼)	1800-2¼ 789 (800-2¼)	NA
DME MINIMUMS				
CIRCLING	1640-1 629 (700-1)		1680-1¼ 669 (700-1¼)	NA



REIL Rwy 8R and 26L
MIRL Rwy 8R-26L

Knots	60	90	120	150	180
Min:Sec					

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

LAKEPORT TWO DEPARTURE (RNAV)

LAKEPORT, CALIFORNIA

OAKLAND CENTER
127.8 353.5
AWOS-2
118.35

TAKE-OFF MINIMUMS

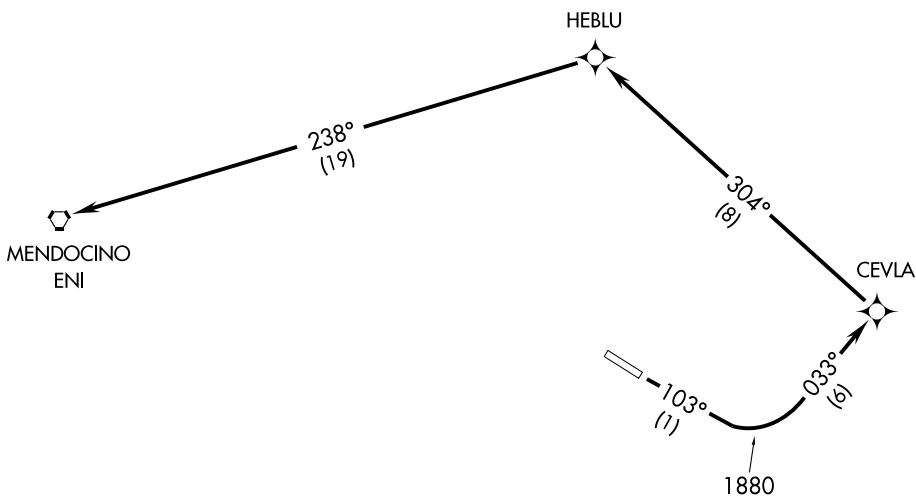
Rwy 10: Standard with minimum
climb of 496' per NM to 4500.

Rwy 28: NA- Rapidly rising terrain.

NOTE: TAKE-OFF Rwy 10: Do not exceed 175 knots until passing HEBLU.

NOTE: 1. GPS Required.

2. RNAV 1.

TAKE-OFF OBSTACLE NOTES

Rwy 10: Vehicle on road 347' from DER, 7' right of centerline, 15' AGL/1394' MSL.

Trees beginning 280' from DER, 201' left of centerline, up to 100' AGL/1479' MSL.

Trees beginning 494' from DER, 219' right of centerline, up to 100' AGL/1479' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 10: Climb heading 103° to 1880, then climb to 6000 on 033° course to CEVLA, then via 304° track to HEBLU, then via 238° track to ENI VORTAC, thence

. . . . via assigned route, expect clearance to filed altitude 10 minutes after departure.

NA

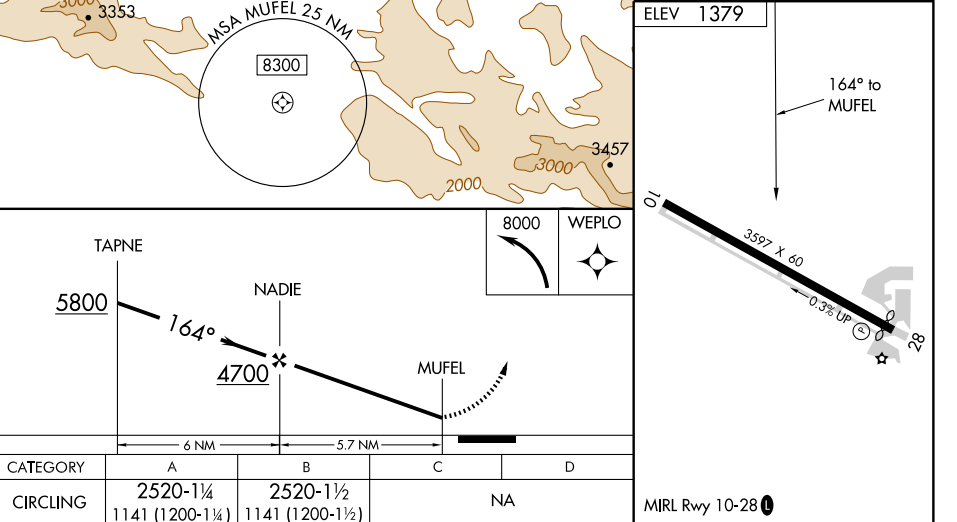
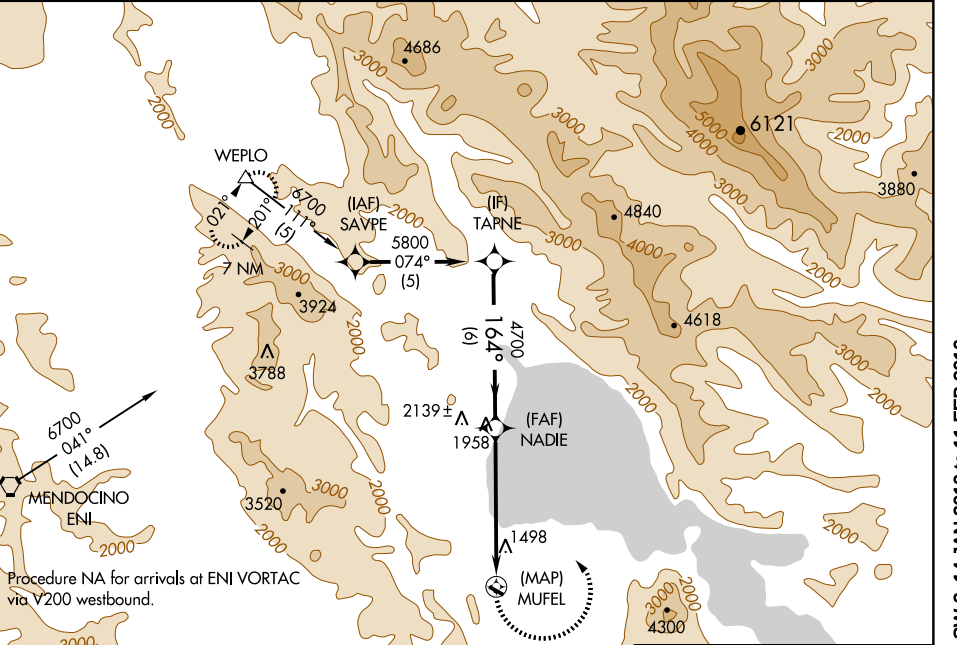
Circling NA south of Rwy 10 and 28. DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Ukiah altimeter setting and increase all MDA 560 feet.

MISSED APPROACH: Climbing left turn to 8000

direct WEPLO and hold, continue climb-in-hold to 8000.

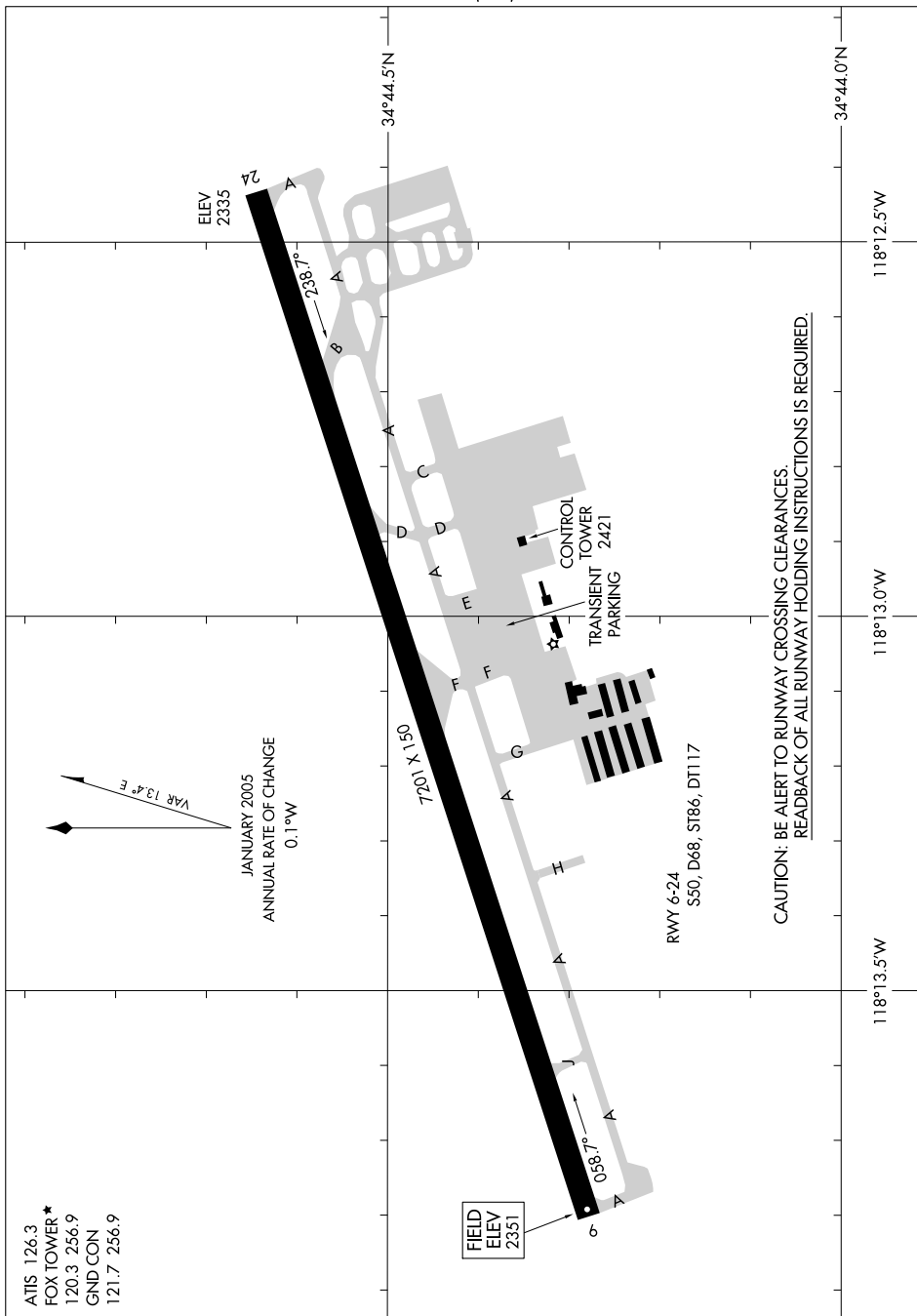
AWOS-2 118.35	OAKLAND CENTER 127.8 353.5	UNICOM 122.8 (CTAF) 0
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SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

LANCASTER/ GENERAL WILLIAM J. FOX AIRFIELD (WJF)
AL-5065 (FAA) LANCASTER, CALIFORNIA



LANCASTER/GENERAL WILLIAM J. FOX AIRFIELD (WJF)

NDB GWF <u>282</u>	APP CRS 113°	Rwy Idg TDZE Apt Elev	N/A N/A 2351
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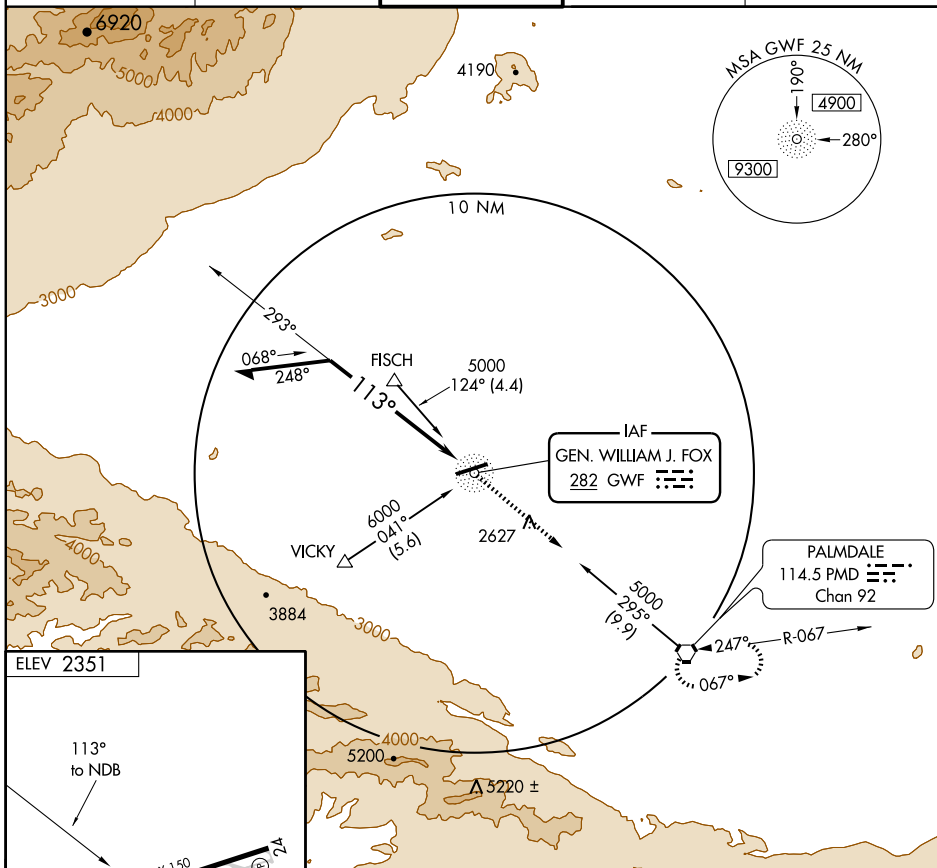
MISSED APPROACH: Climb to 4500 direct PMD VORTAC and hold.

ATIS
126.3

JOSHUA APP CON
126.1 290.3

FOX TOWER ★
120.3 (CTAF) 256.9

GND CON
121.7 256.9

UNICOM
122.95

ELEV 2351

113°
to NDB

150

2421

Remain
within 10 NM

* NDF

* Maximum entry altitude 10000.

4500

PMD

REIL Rwy 6 and 24
MIRL Rwy 6-24

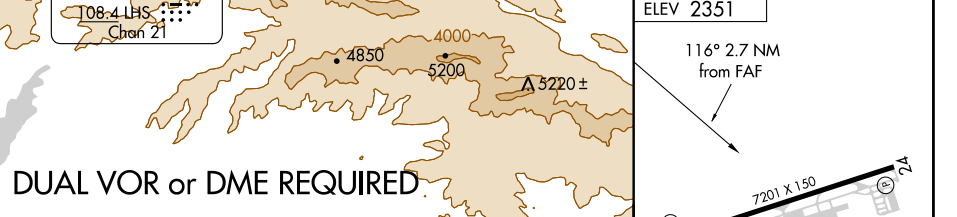
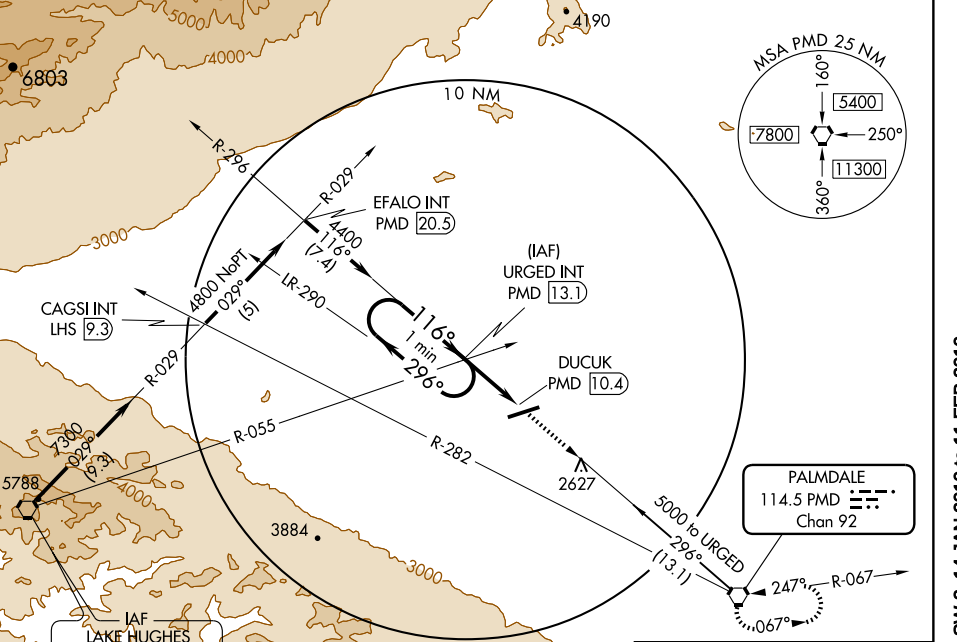
CATEGORY	A	B	C	D
CIRCLING	3100-1 749 (800-1)	3100-1¼ 749 (800-1¼)	3100-2¼ 749 (800-2¼)	3100-2½ 749 (800-2½)

▼

▲

MISSED APPROACH: Climb to 4500 direct PMD VORTAC and hold.

ATIS 126.3	JOSHUA APP CON 126.1 290.3	FOX TOWER ★ 120.3 (CTAF) 256.9	GND CON 121.7 256.9	UNICOM 122.95
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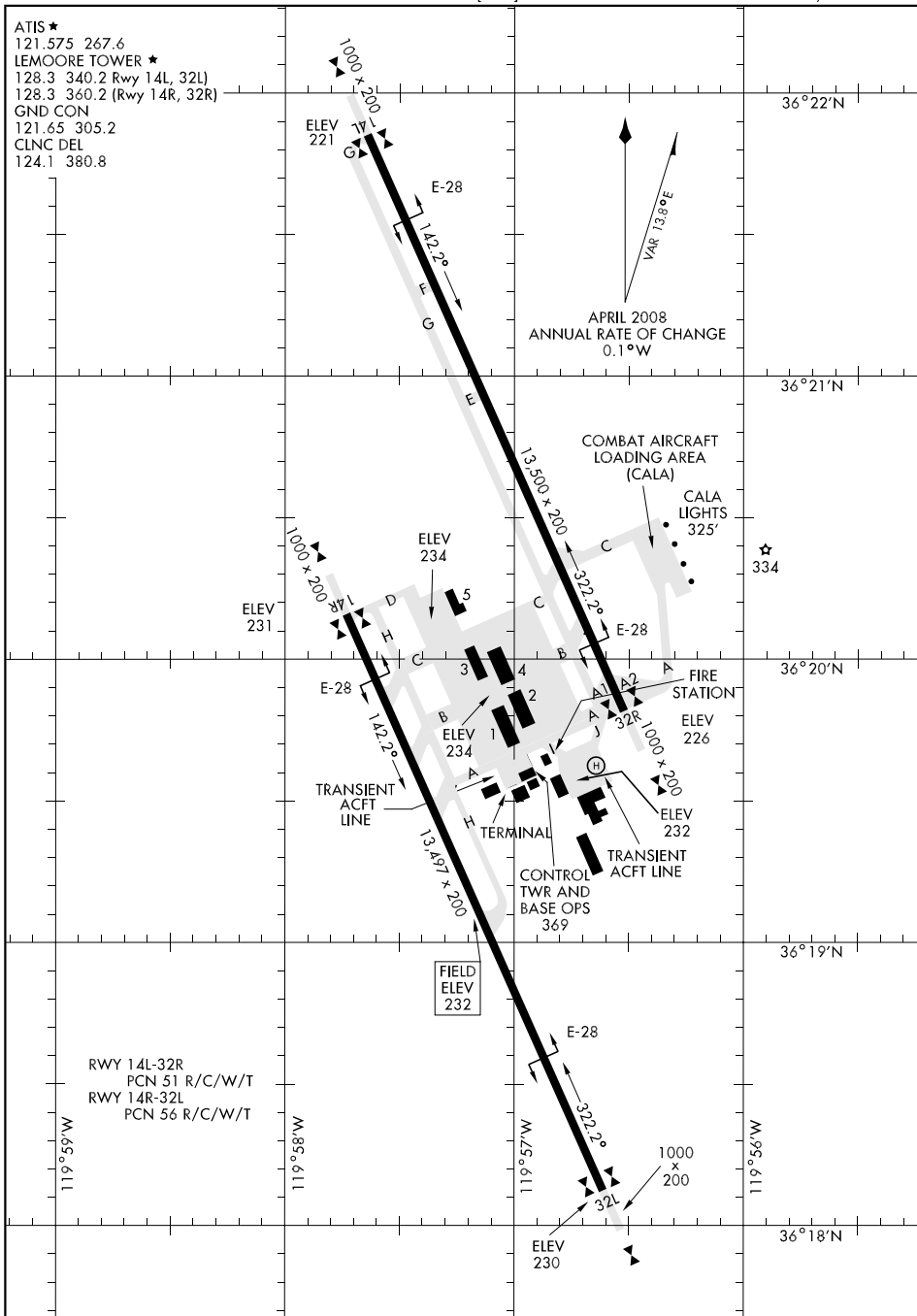


CATEGORY A B C D CIRCLING 3320-1¼ 969 (1000-1¼) 3320-1½ 969 (1000-1½) 3320-3 969 (1000-3)					FAF to MAP 2.7 NM Knots 60 90 120 150 180 Min:Sec 2:42 1:48 1:21 1:05 0:54				
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SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS ★
121.575 267.6
LEMOORE TOWER ★
128.3 340.2 Rwy 14L, 32L)
128.3 360.2 (Rwy 14R, 32R)
GND CON
121.65 305.2
CLNC DEL
124.1 380.8

SW-2, 14 JAN 2010 to 11 FEB 2010



TACAN NLC Chan 80	APCH CRS 164°	Rwy Idg 13,500 TDZE 222 Arpt Elev 232
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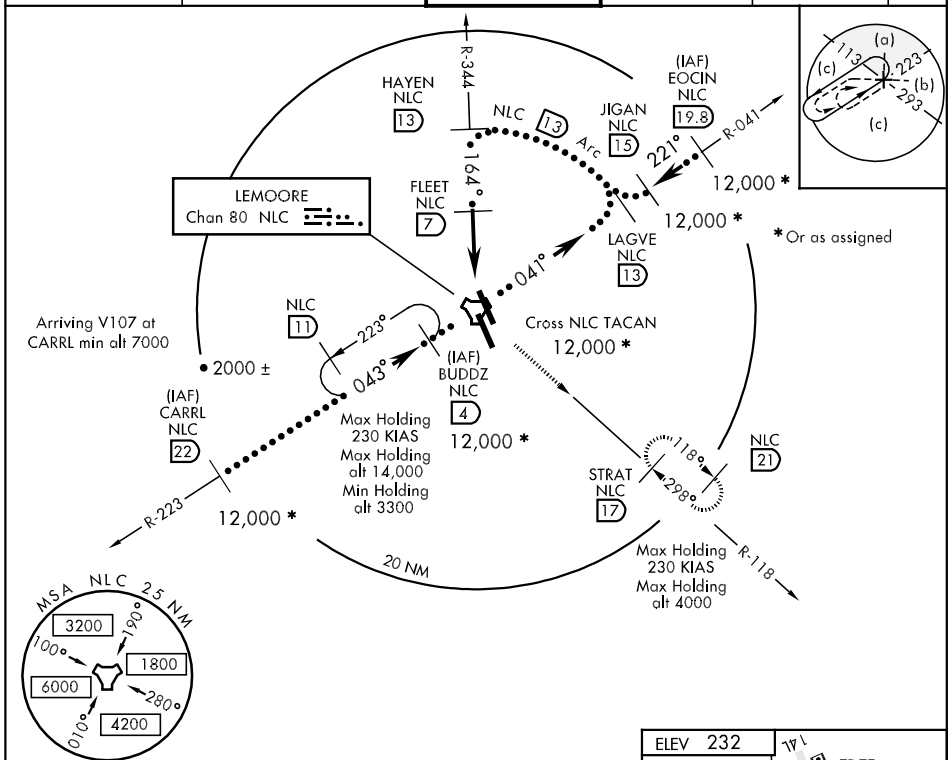
JAL-5067 [USN]

LEMOORE NAS (REEVES FIELD) (KNLC)

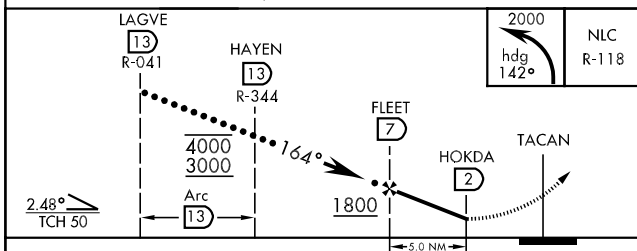


MISSED APPROACH: Climbing left turn to 2000 via heading 142°, intercept NLC R-118 to STRAT and hold.

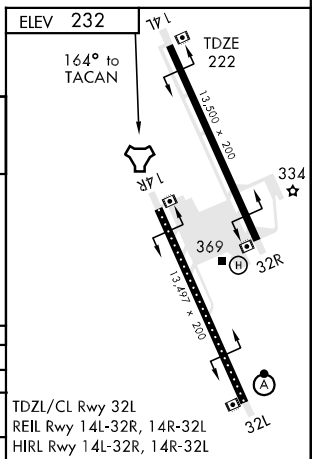
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR
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EMERG SAFE ALT 100 NM 16,500



CATEGORY	C	D	E
S-14L	520-1	298	(300-1)
CIRCLING	700-1½ 468 (500-1½)	800-2	568 (600-2)
S-PAR 14L	322- ½	100 (100-½)	GS 3.0 °



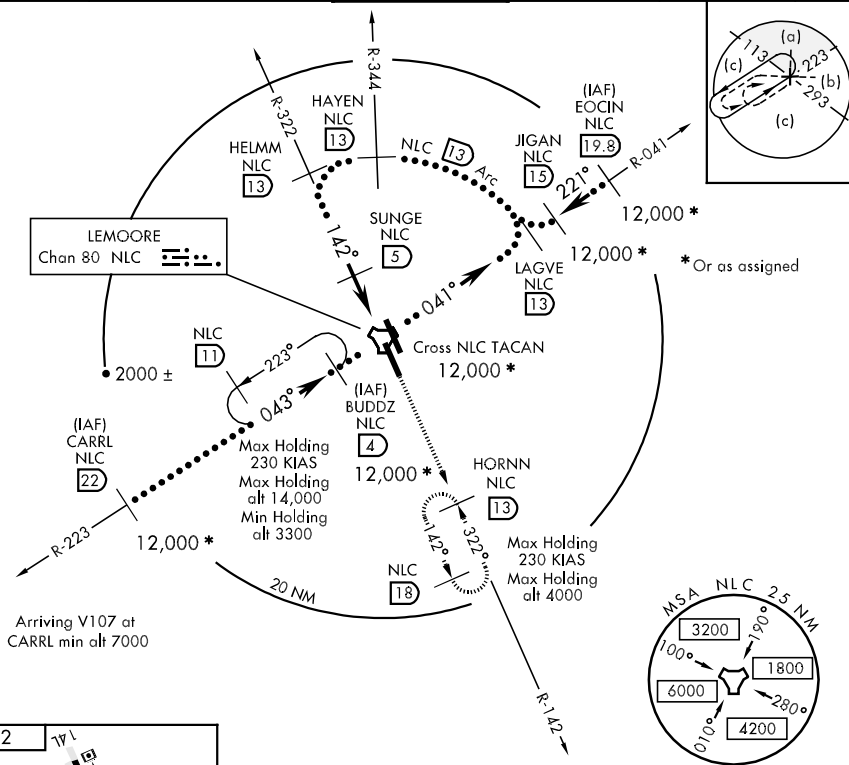
TACAN NLC Chan 80	APCH CRS 142°	Rwy Idg 13,497 TDZE 231 Arpt Elev 232
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JAL-5067 [USN]

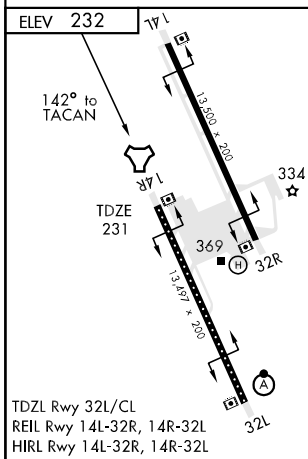
LEMOORE NAS (REEVES FIELD) (KNLC)

▼ MISSED APPROACH: Climb to 3000 via R-142 to HORNN and hold.

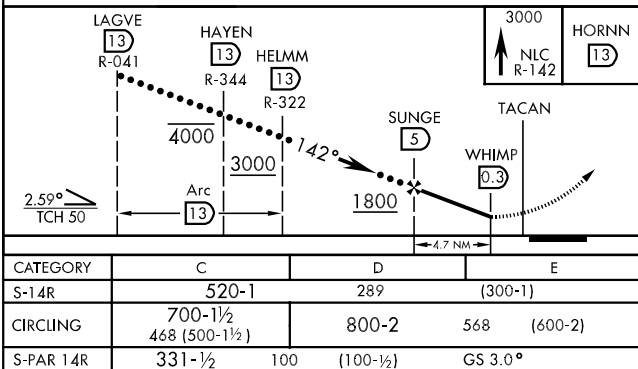
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 360.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR
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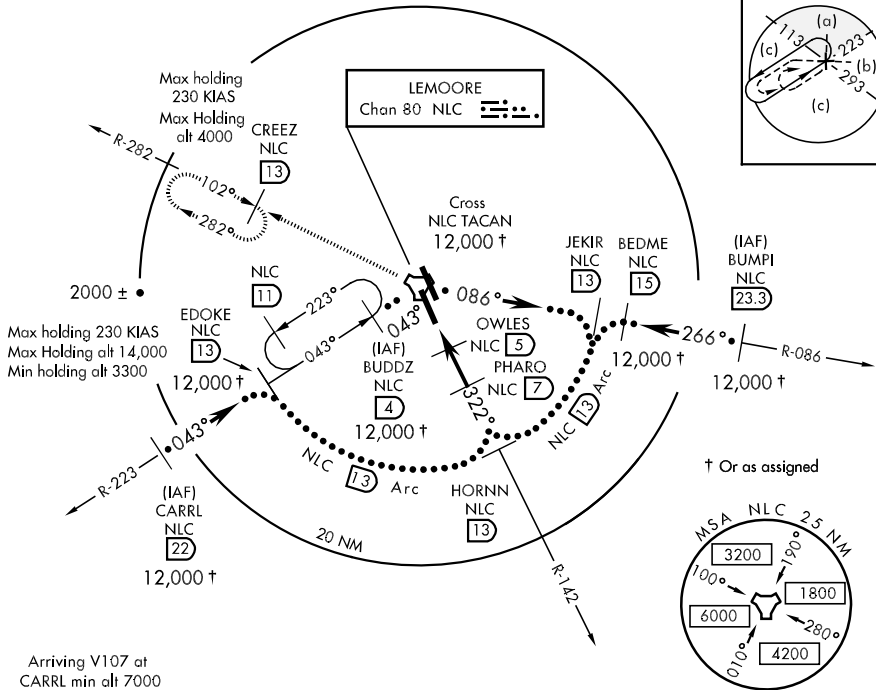
*Or as assigned



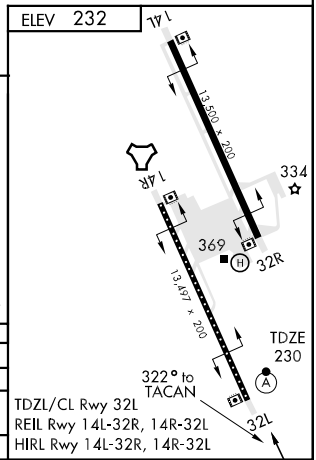
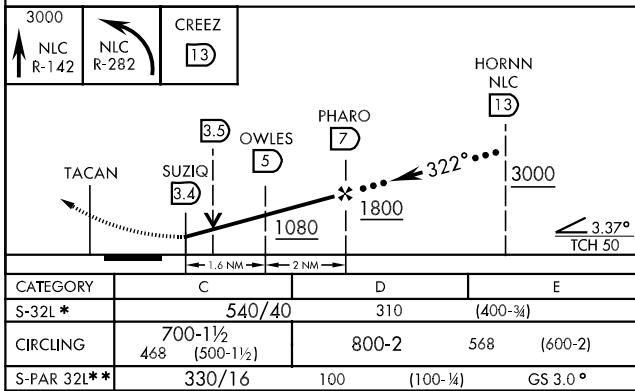
TDZL Rwy 32L/CL
REIL Rwy 14L-32R, 14R-32L
HIRL Rwy 14L-32R, 14R-32L



TACAN NLC Chan 80	APCH CRS 322°	Rwy Idg 13,497 TDZE 230 Arpt Elev 232	JAL-5067 [USN]	LEMOORE NAS (REEVES FIELD) (KNLC)		
▼ * When ALS inop, increase CAT CDE RVR to 50 and vis to 1 mile. ** When ALS inop, increase CAT CDE RVR to 24 and vis to ½ mile.			ALSF-2 	MISSED APPROACH: Climb to 3000 via R-142 to NLC TACAN, then via R-282 to CREEZ and hold.		
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0		LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR



EMERG SAFE ALT 100 NM 16,500



TACAN NLC Chan 80	APCH CRS 322°	Rwy Idg 13,497 TDZE 230 Arpt Elev 232
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JAL-5067 [USN]

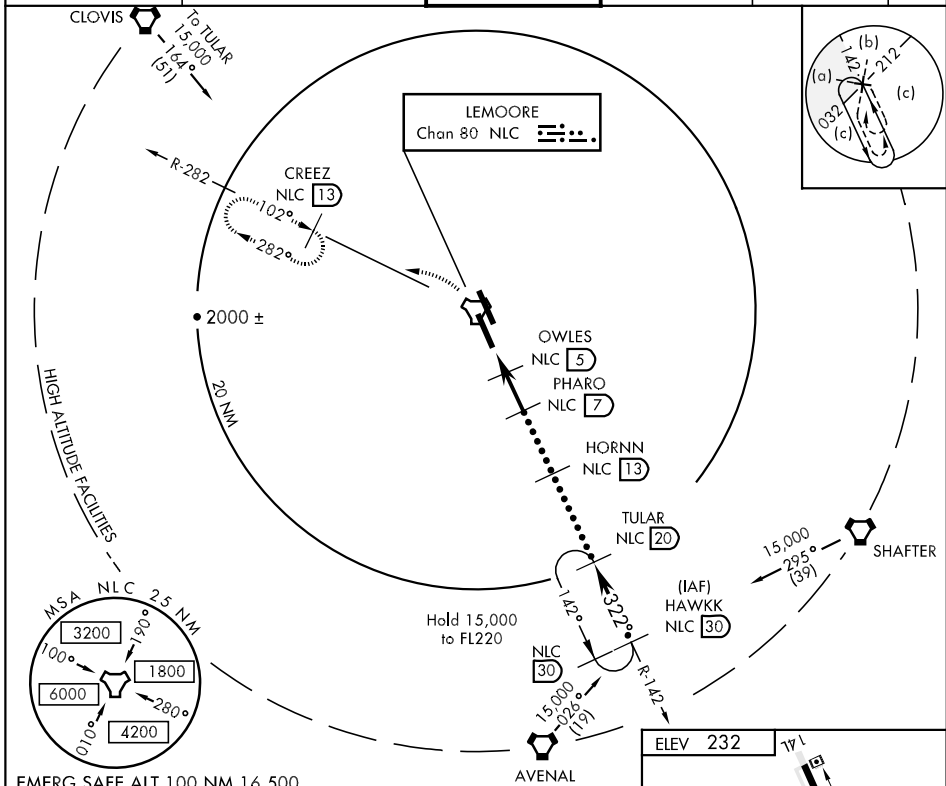
LEMOORE NAS (REEVES FIELD) (KNLC)

▼ * When ALS inop, increase CAT CDE RVR to 50 and vis to 1 mile.
 ** When ALS inop, increase CAT CDE RVR to 24 and vis to ½ mile.



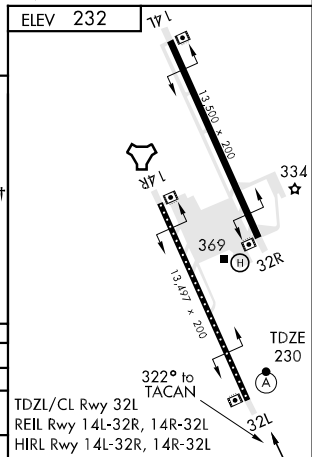
MISSED APPROACH: Climb to 3000 via R-142 to NLC TACAN, then via R-282 to CREEZ and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/ PAR
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EMERG SAFE ALT 100 NM 16,500

3000 NLC R-142	NLC R-282				
TACAN	SUZIQ 3.4	OWLES 3.5	PHARO 7	HORNN 13	TULAR 20
					HAWKK 30
					15,000†
					322°
					3000
					3.37°
					TCH 50
					† Or as assigned
CATEGORY	C	D	E		
S-32L *	540/40	310	(400-34)		
CIRCLING	700-1½ 468 (500-1½)	800-2	568 (600-2)		
S-PAR 32L**	330/16	100	(100-¼)	GS 3.0°	



LEMOORE-SEVEN DEPARTURE (NLC7•NLC)

LEMOORE-SEVEN DEPARTURE (NLC7•NLC) (NLC7•NLC)
LEMOORE, CALIFORNIA

ATIS ★ 121.575 267.6
CLINC DEL
124.1 380.8
GND CON
121.65 305.2
LEMOORE TOWER ★
128.3 340.2
(Rwy 14L, 32L)
128.3 360.2
(Rwy 14R, 32R)
LEMOORE DEP CON
124.1 318.8 (N)
118.15 318.8 (S)

SHL-5067 [USN]

FALLON
Chan 82 NFL
L-9, H-3

FRIANT
115.6 FRA
Chan 103
L-3, L-9, H-3

PANOCHÉ
112.6 PXN
Chan 73
L-3, H-3

SALINAS
117.3 SNS
Chan 120
L-3, H-3

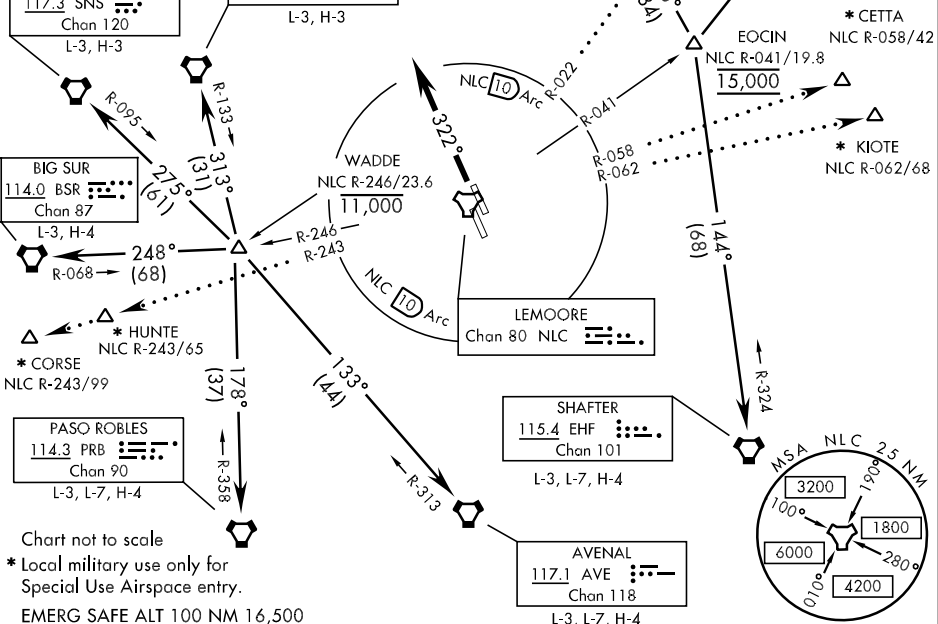
BIG SUR
114.0 BSR
Chan 87
L-3, H-4

* CORSE
NLC R-243/99

PASO ROBLES
114.3 PRB
Chan 90
L-3, L-7, H-4

Chart not to scale
* Local military use only for
Special Use Airspace entry.

EMERG SAFE ALT 100 NM 16,500



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 32L/32R: Climb to 2000 via heading 322°. Expect radar vectors to join assigned transition route.

AVENAL TRANSITION (NLC7.AVE): From over WADDE via AVE R-313 to AVENAL VORTAC. Thence as filed. Cross WADDE at or below 11,000.

BIG SUR TRANSITION (NLC7.BSR): From over WADDE climb on heading 248° to 11,000 or as assigned for vectors to intercept BSR R-068 to BIG SUR VORTAC. Thence as filed. Cross WADDE at or below 11,000.

COALDALE TRANSITION (NLC7.OAL): From over EOCIN climb on heading 029° to 15,000 or as assigned for radar vectors to intercept OAL R-209 to COALDALE VORTAC. Thence as filed. Cross EOCIN at 15,000.

(Continued on next page)

LEMOORE-SEVEN DEPARTURE (NLC7•NLC)

LEMOORE, CALIFORNIA

SW-2, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION
(Continued)

CORSE TRANSITION (NLC7.CORSE): From over WADDE fly heading 246° for vectors to intercept NLC R-243 to CORSE. Cross WADDE at or below 11,000.

FALLON TRANSITION (NLC7.NFL): From over EOCIN fly heading 041° for vectors to FALLON TACAN. Then as filed. Cross EOCIN at 15,000.

FRIANT TRANSITION (NLC7.FRA): From over EOCIN via FRA R-166 to FRIANT VORTAC. Thence as filed. Cross EOCIN at 15,000.

HUNTE TRANSITION (NLC7.HUNTE): From over WADDE fly heading 246° for vectors to intercept NLC R-243 to HUNTE. Cross WADDE at or below 11,000.

MIZRE TRANSITION (NLC7.MIZRE): from over EOCIN fly heading 041° for vectors to intercept NLC R-022 to MIZRE. Thence as filed. Cross EOCIN at 15,000.

PANOCHÉ TRANSITION (NLC7.PXN): From over WADDE via PXN R-133 to PANOCHÉ VORTAC. Thence as filed. Cross WADDE at or below 11,000.

PASO ROBLES TRANSITION (NLC7.PRБ): From over WADDE via PRB R-358 to PASO ROBLES VORTAC. Thence as filed. Cross WADDE at or below 11,000.

SALINAS TRANSITION (NLC7.SNS): From over WADDE climb on heading 275° to 11,000 or as assigned for vectors to intercept SNS R-095 to SALINAS VORTAC. Thence as filed. Cross WADDE at or below 11,000.

SHAFTER TRANSITION (NLC7.EHF): From over EOCIN via EHF R-324 to SHAFTER VORTAC. Thence as filed. Cross EOCIN at 15,000.

TIOGA TRANSITION (NLC7.TIOGA): From over EOCIN fly heading 041° for vectors to TIOGA. Thence as filed. Cross EOCIN at 15,000.

LOST COMMUNICATIONS: If no transmissions are received within 8 DME of NLC TACAN, climb to 4000, fly departure heading to intercept NLC TACAN 10 mile arc, arc to respective departure radial then via departure radial to assigned departure fix. Then via assigned transition or route. Once established on departure radial climb to filed altitude.

REEVES-ONE DEPARTURE (REVES1•NLC)

LEMOORE T-10 (REEVES FIELD) (RWY 14L/14R)
LEMOORE, CALIFORNIA

ATIS ★ 121.575 267.6
CLINC DEL
124.1 380.8
GND CON
121.65 305.2
LEMOORE TOWER ★
128.3 340.2
(Rwy 14L, 32L)
128.3 360.2
(Rwy 14R, 32R)
LEMOORE DEP CON
124.1 318.8 (N)
118.15 318.8 (S)

SHL-5067 [USN]

FALLON
Chan 82 NFL
L-9, H-3

△ TIOGA
OAL R-250/79

COADALE
117.7 OAL
Chan 124
L-9, H-3

FRIANT
115.6 FRA
Chan 103
L-3, L-9, H-3

* MIZRE
NLC R-022/49

PANOCHÉ
112.6 PXN
Chan 73
L-3, H-3

SALINAS
117.3 SNS
Chan 120
L-3, H-3

LEMOORE
Chan 80 NLC

* SWOOP
NLC R-077/67

BIG SUR
114.0 BSR
Chan 87
L-3, H-4

* OMEGA
NLC R-082/47

* HUNTE
NLC R-243/65
* CORSE
NLC R-243/99

PASO ROBLES
114.3 PRB
Chan 90
L-3, L-7, H-4

SHAFTER
115.4 EHF
Chan 101
L-3, L-7, H-4

AVENAL
117.1 AVE
Chan 118
L-3, L-7, H-4

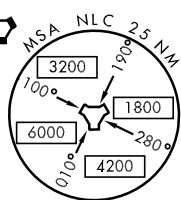


Chart not to scale

* Local military use only for
Special Use Airspace entry.

EMERG SAFE ALT 100 NM 16,500

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14L/14R: Climb to 2000 via heading 142°. Expect radar vectors to join assigned transition route.

AVENAL TRANSITION (REVES1.AVE): From over CARRL via AVE R-313 to AVENAL VORTAC. Thence as filed. Cross CARRL at or below 11,000.

BIG SUR TRANSITION (REVES1.BSR): From over CARRL climb on heading 256° to 11,000 or as assigned for vectors to intercept BSR R-076 to BIG SUR VORTAC. Thence as filed. Cross CARRL at or below 11,000.

(Continued on next page)

DEPARTURE ROUTE DESCRIPTION
(Continued)

CORSE TRANSITION (REVES1.CORSE): From over CARRL fly heading 270° for vectors to intercept NLC R-243 to CORSE. Cross CARRL at or below 11,000.

HUNTE TRANSITION (REVES1.HUNTE): From over CARRL fly heading 270° for vectors to intercept NLC R-243 to HUNTE. Cross CARRL at or below 11,000.

PANOCHÉ TRANSITION (REVES1.PXN): From over CARRL via PXN R-133 to PANOCHÉ VORTAC. Thence as filed. Cross CARRL at or below 11,000.

PASO ROBLES TRANSITION (REVES1.PRB): From over CARRL via PRB R-010 to PASO ROBLES VORTAC. Thence as filed. Cross CARRL at or below 11,000.

SALINAS TRANSITION (REVES1.SNS): From over CARRL climb on heading 280° to 11,000 or as assigned for vectors to intercept SNS R-100 to SALINAS VORTAC. Thence as filed. Cross CARRL at or below 11,000.

LOST COMMUNICATIONS: If no transmissions are received within 8 DME of NLC TACAN, climb to 4000, fly departure heading to intercept NLC TACAN 10 mile arc, thence...

West bound Departures: Arc west of NLC TACAN via 10 mile arc to NLC R-223 to CARRL, then via assigned transition or route. Once established on departure radial climb to filed altitude. Cross CARRL at or below 11,000.

East bound Departures: Arc east of NLC TACAN via 10 mile arc to NLC R-086, then via NLC R-086 to BUMPI, then via assigned route. Once established on NLC R-086 climb to filed altitude. Cross BUMPI at 15,000.

SW-2, 14 JAN 2010 to 11 FEB 2010

APCH CRS **142°**
Rwy Idg **13,500**
TDZE **222**
Arpt Elev **232**

AL-5067 [USN]

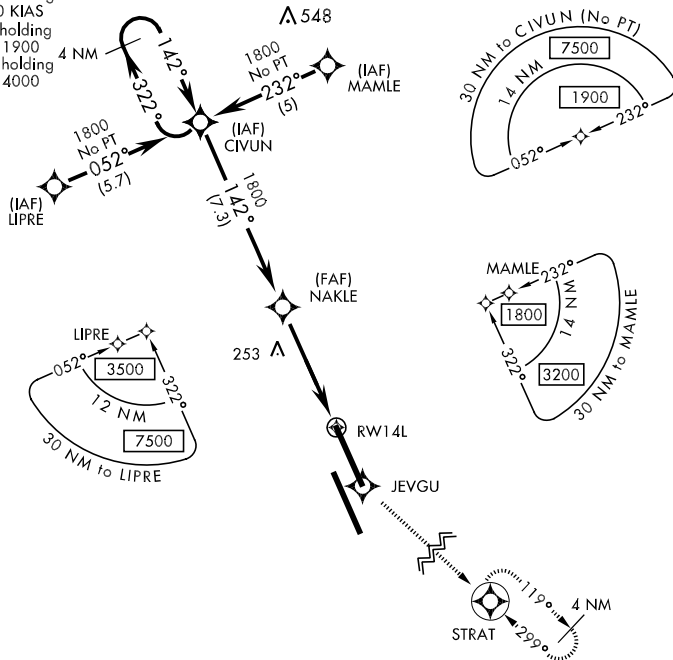
LEMOORE NAS (REEVES FLD) (KNLC)

Baro VNAV NA below - 15.46°C (4.17°F).
DME/DME RNP 0.3 NA

MISSED APPROACH: Climb to 2000 direct JEVGU,
then via track 119° to STRAT and hold.

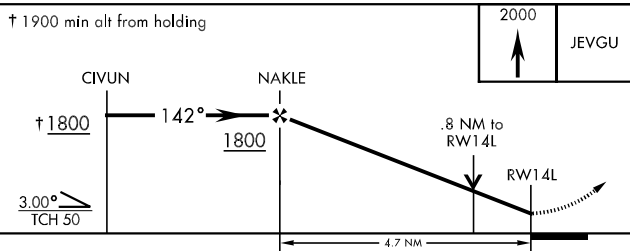
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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Max holding
230 KIAS
Min holding
alt 1900
Max holding
alt 4000

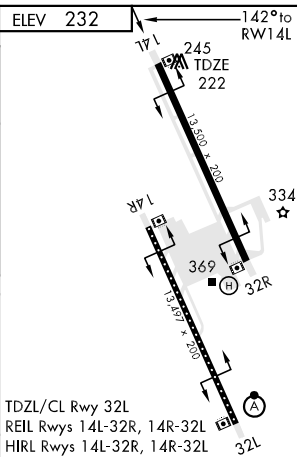


EMERG SAFE ALT 100 NM 16,500

† 1900 min alt from holding



CATEGORY	A	B	C	D
LNAV MDA	520-1	298	(300-1)	
LNAV/VNAV DA	520-1	298	(300-1)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 14L	322-½	100	(100-½)	GS 3.0°



APCH CRS **142°** Rwy Idg **13,497**
 TDZE **231**
 Arpt Elev **232**

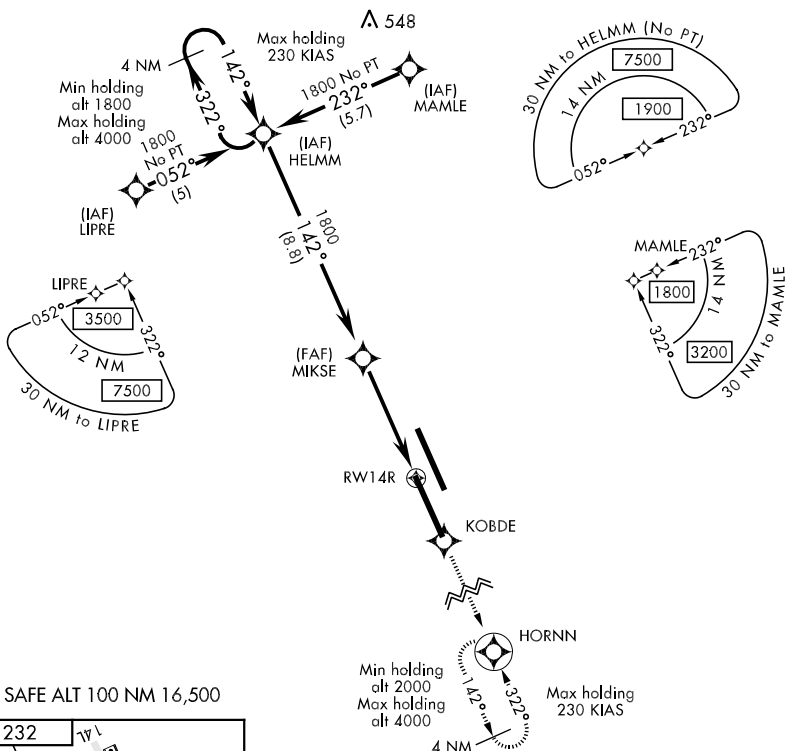
AL-5067 [USN]

LEMOORE NAS (REEVES FLD) (KNLC)

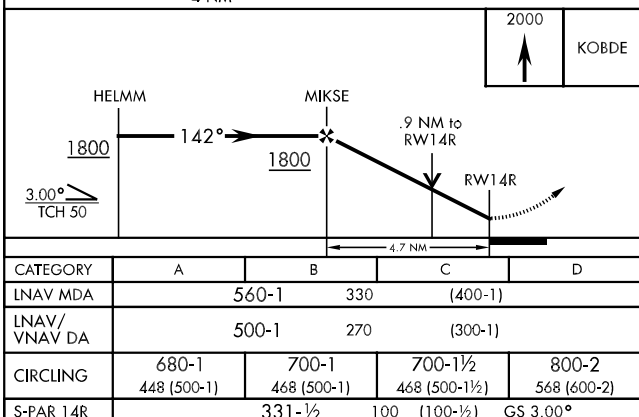
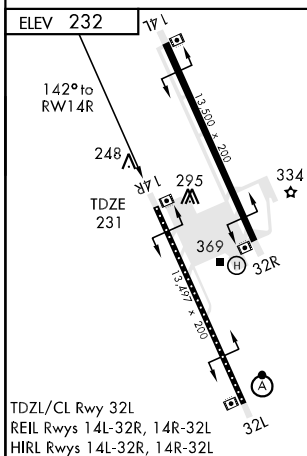
Baro VNAV NA below -15.46°C (4.17°F).
 DME/DME RNP-0.3 NA

MISSED APPROACH: Climb to 2000 direct KOBDE,
 then via track 142° to HORNN and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 360.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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EMER SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
LNAV MDA	560-1	330	(400-1)	
LNAV/VNAV DA	500-1	270	(300-1)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 14R	331-½	100	(100-½)	GS 3.00°

APCH CRS **322°** Rwy Idg **13,497**
 TDZE **230**
 Arpt Elev **232**

AL-5067 [USN]

LEMOORE NAS (REEVES FLD) (KNLC)

▼ * When ALS inop, increase CAT ABCD RVR to 50 and vis to 1 mile.

** When ALS inop, increase CAT ABCD RVR to 24 and vis to ½ mile.

ALSF-2

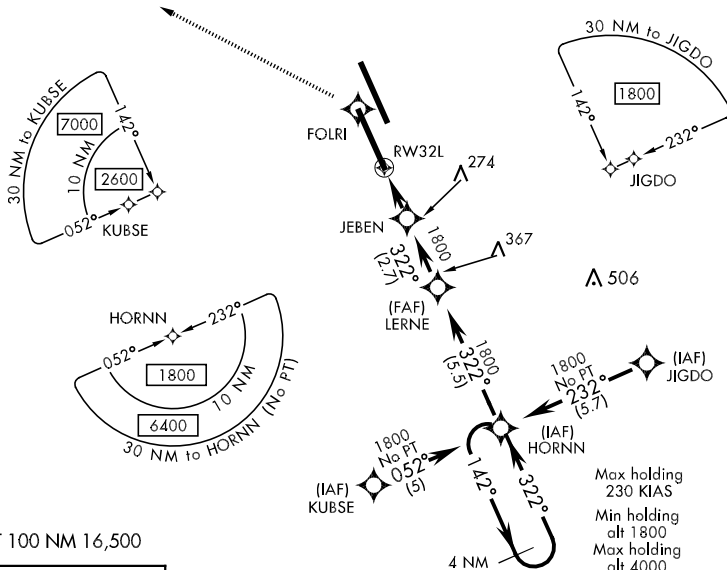


MISSED APPROACH: Climb to 3200
 direct FOLRI, then via track 281° to
 CREEZ and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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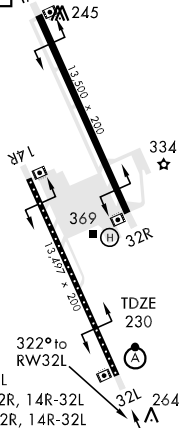
Baro VNAV NA below - 15.46°C (4.17°F).

DME/DME RNP-0.3 NA



EMER SAFE ALT 100 NM 16,500

ELEV 232



TDZL/CL Rwy 32L

REIL Rwy 14L-32R, 14R-32L

HIRL Rwy 14L-32R, 14R-32L

	3200	FOLRI	JEBEN	LERNE	HORNN	
			.75 from RW32L			
			900	1800	1800	
			2 NM	2.7 NM		
CATEGORY	A	B	C	D		
LNAV MDA *	520/24	290 (300-½)	520/40	290 (300-¾)		
LNAV/VNAV DA *	520/24	290 (300-½)	520/40	290 (300-¾)		
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)		
S-PAR 32L **	330/16		100 (100-¼)	GS 3.00°		

LEMOORE, CALIFORNIA

36°20'N-119°57'W

LEMOORE NAS (REEVES FLD) (KNLC)

APCH CRS **322°** Rwy Idg **13,500**
 TDZE **225**
 Arpt Elev **232**

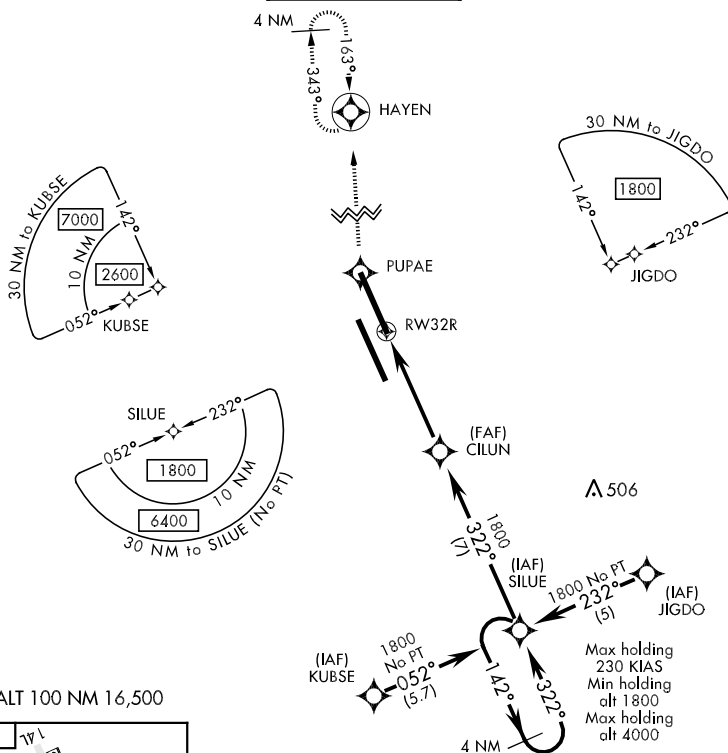
AL-5067 [USN]

LEMOORE NAS (REEVES FLD) (KNLC)

DME/DME RNP-0.3 NA
 Baro VNAV NA below - 15.46°C (4.17°F)

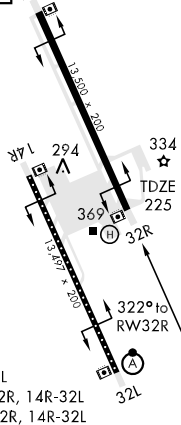
MISSED APPROACH: Climb to 2000 direct PUPAE,
 then via track 343° to HAYEN and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 360.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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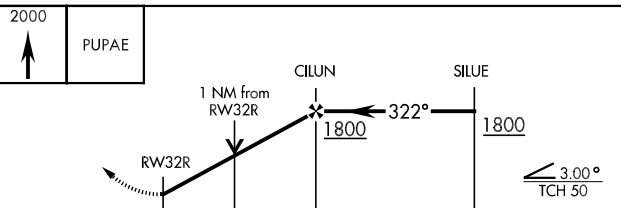


EMER SAFE ALT 100 NM 16,500

ELEV 232



TDZL/CL Rwy 32L
 REIL Rwy 14L-32R, 14R-32L
 HIRL Rwy 14L-32R, 14R-32L



CATEGORY	A	B	C	D
LNAV MDA	620/50	395	(400-1)	620/60 395 (400-1½)
LNAV/VNAV DA	620/60	395	(400-1½)	620-1½ 395 (400-1½)
CIRCLING	680-1¼ 448 (500-1¼)	700-1¼ 468 (500-1¼)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 32R	325/24		100 (100-½)	GS 3.00°

TACAN NLC Chan 80	APCH CRS 164°	Rwy Idg 13,500 TDZE 222 Arpt Elev 232
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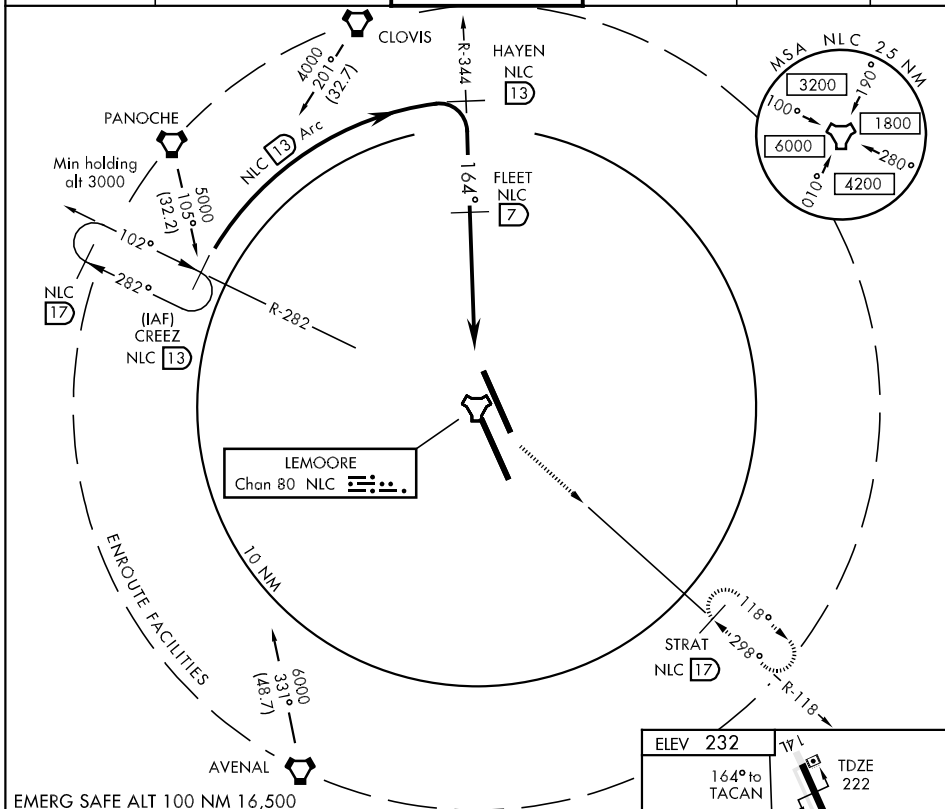
AL-5067 [USN]

LEMOORE NAS (REEVES FIELD) (KNLC)

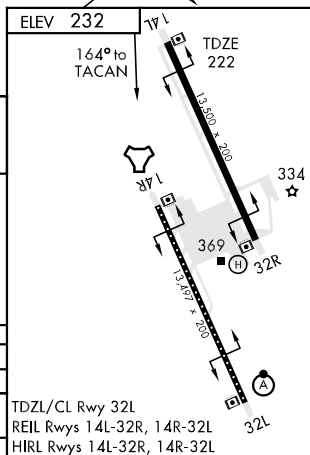
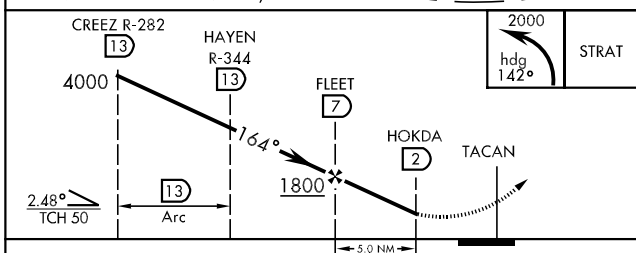


MISSED APPROACH: Climbing left turn to 2000 via heading 142°, intercept R-118 to STRAT and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-14L	520-1	298	(300-1)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 14L	322-½	100	(100-½)	GS 3.0°

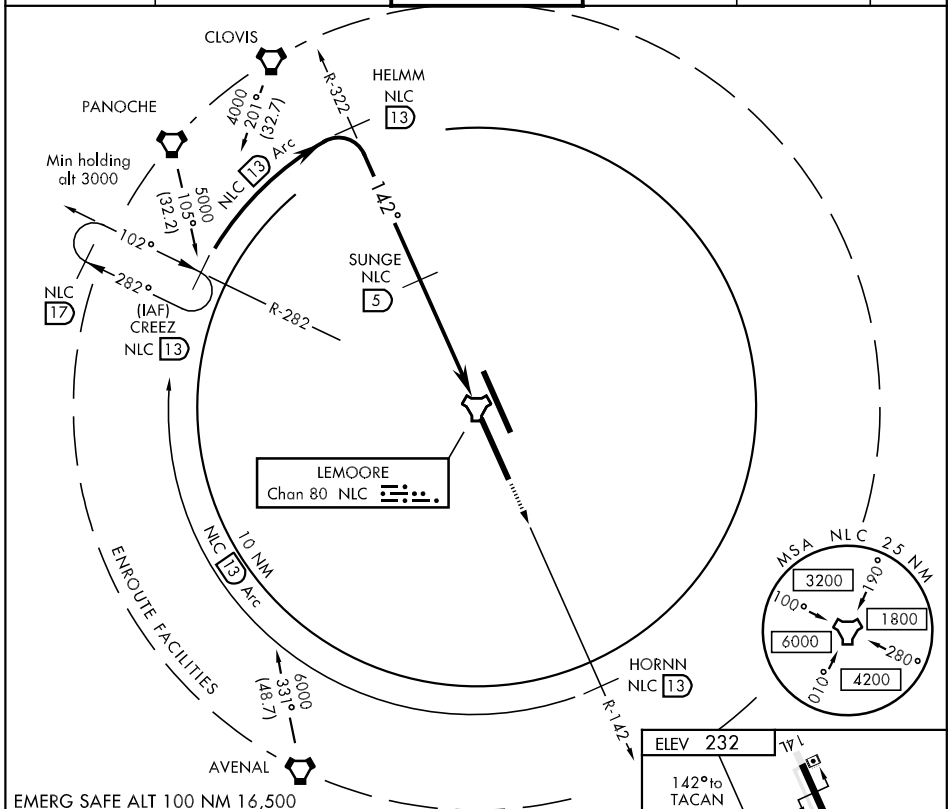
TDZL/CL Rwy 32L
REIL Rwy 14L-32R, 14R-32L
HIRL Rwy 14L-32R, 14R-32L

TACAN NLC Chan 80	APCH CRS 142°	Rwy Idg 13,497 TDZE 231 Arpt Elev 232	AL-5067 [USN]	TACAN RWY 14R LEMOORE NAS (REEVES FIELD) (KNLC)
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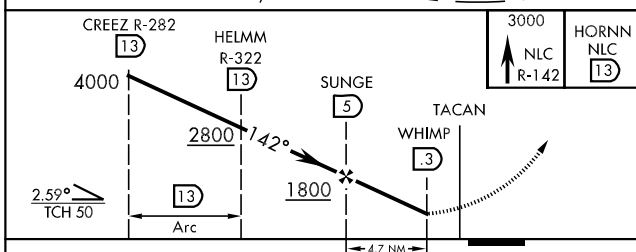


MISSED APPROACH: Climb to 3000 via R-142 to HORNN, then arc SW of NLC TACAN via the 13 DME Arc to CREEZ and hold.

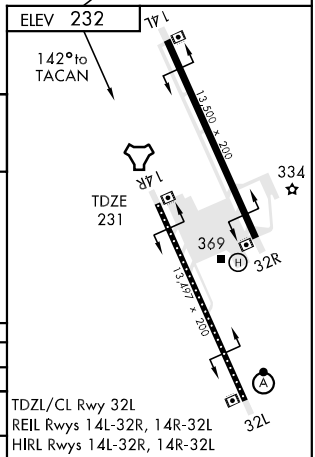
ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 360.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-14R	520-1	289	(300-1)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 14R	331-½	100	(100-½)	GS 3.0°



TACAN NLC Chan 80	APCH CRS 322°	Rwy Idg 13,497 TDZE 230 Arprt Elev 232
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AL-5067 [USN]

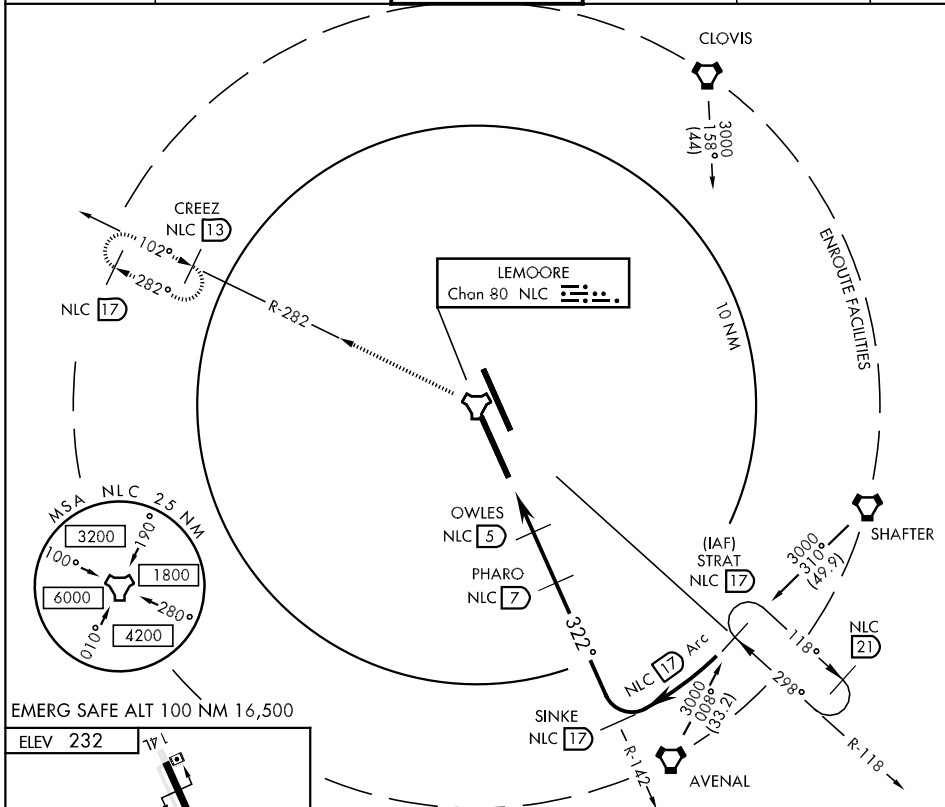
LEMOORE NAS (REEVES FIELD) (KNLC)

▼ *When ALS inop, increase CAT ABCD RVR to 50 and vis to 1 mile.
 **When ALS inop, increase CAT ABCD RVR to 24 and vis to ½ mile.

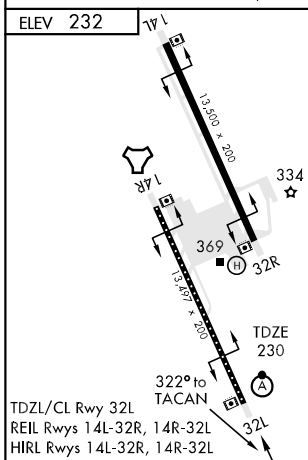


MISSED APPROACH: Climb to 3000 via R-142 to NLC TACAN, then via R-282 to CREEZ and hold.

ATIS ★ 121.575 267.6	LEMOORE APP CON N 124.1 S 118.15 286.0	LEMOORE TOWER ★ 128.3 340.2	GND CON 121.65 305.2	CLNC DEL 124.1 380.8	ASR/PAR
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EMERG SAFE ALT 100 NM 16,500

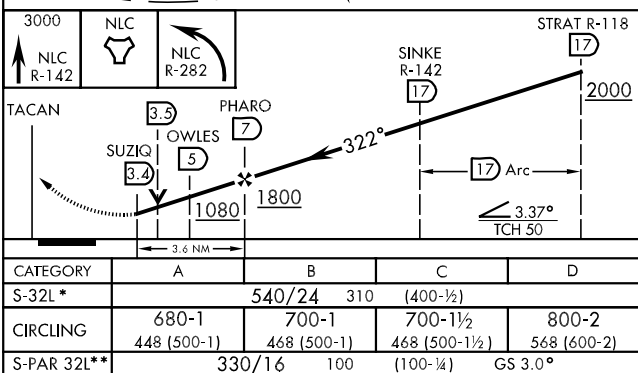


LEMOORE, CALIFORNIA

Amdt 4, 08101

36°20'N-119°57'W

LEMOORE NAS (REEVES FIELD) (KNLC)



CATEGORY	A	B	C	D
S-32L *		540/24 310	(400-½)	
CIRCLING	680-1 448 (500-1)	700-1 468 (500-1)	700-1½ 468 (500-1½)	800-2 568 (600-2)
S-PAR 32L **	330/16	100	(100-¼)	GS 3.0°

APP CRS	Rwy Idg	6001
148°	TDZE	121
	Apt Elev	121

GPS RWY 15

LINCOLN RGNL/KARL HARDER FIELD (LHM)

T For inoperative MALSR increase S-15 A-C
A NA visibilities to 1, Category D to 1½.

MALSR

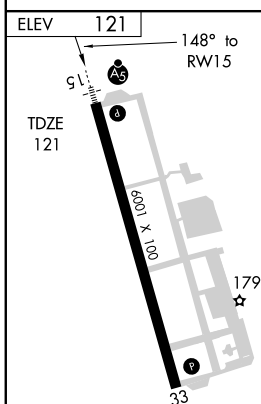
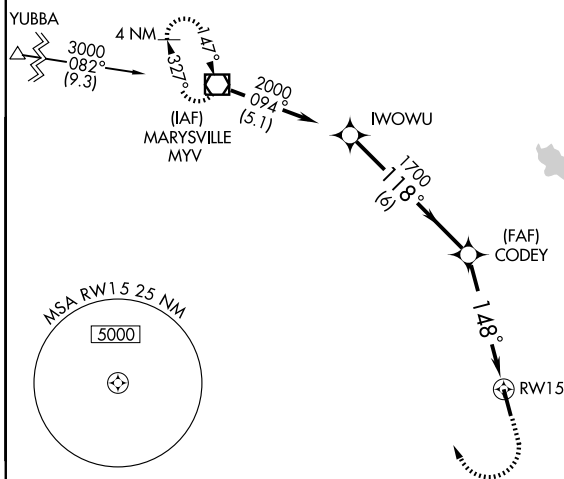


MISSED APPROACH: Climb to 600 then climbing right turn to 2000, direct MYV VOR/DME and hold.

AWOS-3
124.25

NORCAL APP CON
125.4 259.1

UNICOM
123.0 (CTAF) **L**



▽

▲ NA

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 direct to MYV VOR/DME and hold.

AWOS-3
124.25

NORCAL APP CON
125.4 259.1

UNICOM
123.0 (CTAF) 0

ELEV 121

	800	2000	MYV	ROZZY	4 NM Holding Pattern
			MUCGU	127° → 3000	
			328°	307°	← 307°
			1600		
			5 NM	5.6 NM	
CATEGORY	A	B	C	D	
S-33	720-1	599 (600-1)	720-1½ 599 (600-1½)	720-1¾ 599 (600-1¾)	
CIRCLING	720-1	599 (600-1)	720-1½ 599 (600-1½)	720-2 599 (600-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

LOC/DME I-LHM <u>108.75</u> Chan 24 (Y)	APP CRS 149°	Rwy Idg 6001 TDZE 119 Apt Elev 121
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ILS RWY 15
LINCOLN RGNL/KARL HARDER FIELD (LHM)

▼ If local altimeter setting not received, use Beale AFB altimeter setting and increase all DH/MDAs 40 feet. When neither is received, procedure not authorized.

▲NA For inoperative MALS, increase S-LOC 15 Cat. D visibility to 1 mile.

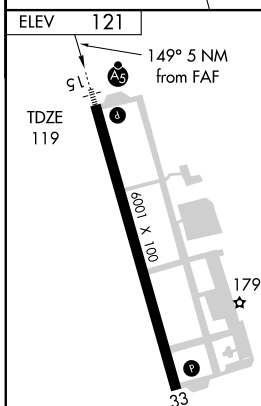
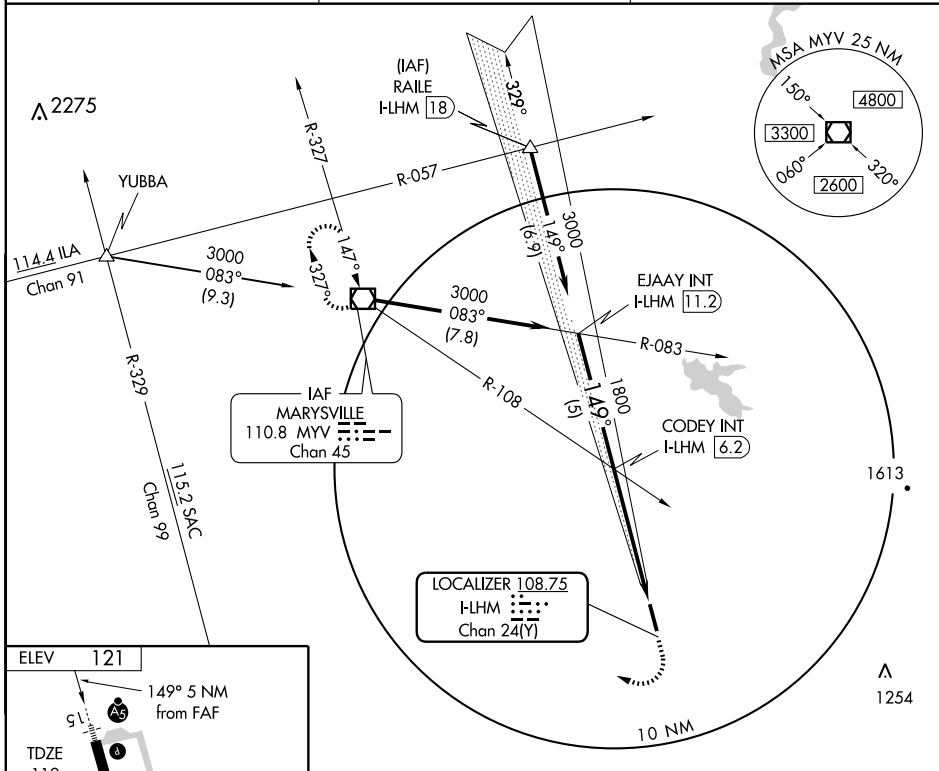
MALSR

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct MYV VOR/DME and hold.

AWOS-3
124.25

NORCAL APP CON
125.4 259.1

UNICOM
123.0 (CTAF) **L**



Procedure Turn

NA

EJAAY INT
I-LHM 11.2CODEY INT
I-LHM 6.2

600

300

MYV



110.8

3000

49°

1779

GS 3.00°
TCH 15

1800

CATEGORY

A

B

C

2

S-ILS 15

319- $\frac{1}{2}$	200 (200- $\frac{1}{2}$)
--------------------	---------------------------

S-LOC 15

341 (400)

460- $\frac{3}{4}$

500

90-1

$$\frac{341 (400 - \frac{3}{4})}{490 - 2}$$

CIRCLING

381 (40)

(500-1)

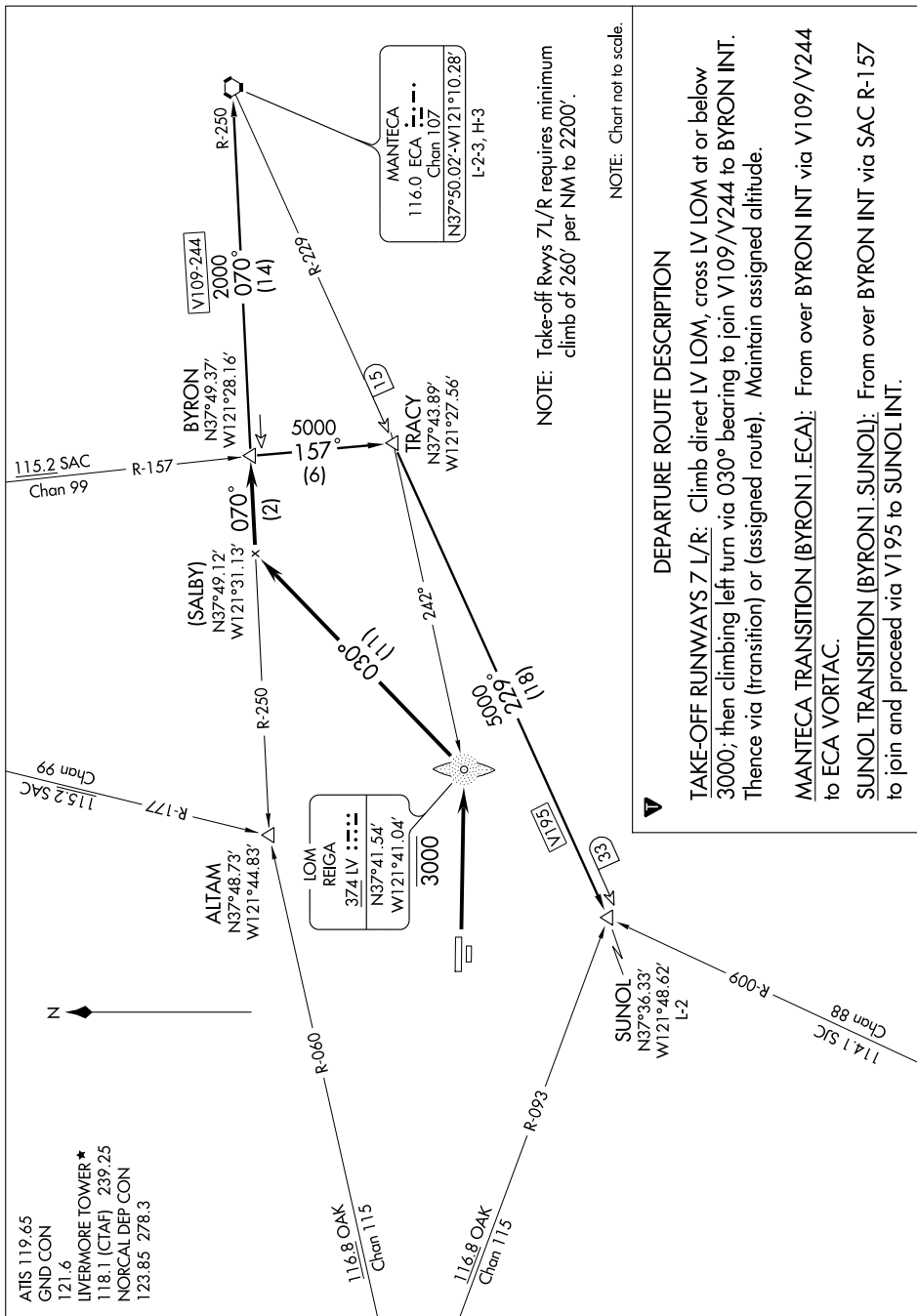
561 (600-2)



BYRON ONE DEPARTURE

SL-6075 (FAA)

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA



LOC I-LVK	APP CRS	Rwy Idg	5253
110.5	255°	TDZE	397
		Apt Elev	397

ILS RWY 25R

LIVERMORE MUNI (LVK)

- ⚠** Circling NA north of Rwy 7L-25R.
⚠ Autopilot coupled approaches NA below 1700.



MISSED APPROACH: Climb to 1100, then climbing right turn to 3000 direct REIGA LOM, then via REIGA LOM 062° bearing to TRACY Int and hold.

ATIS
119.65

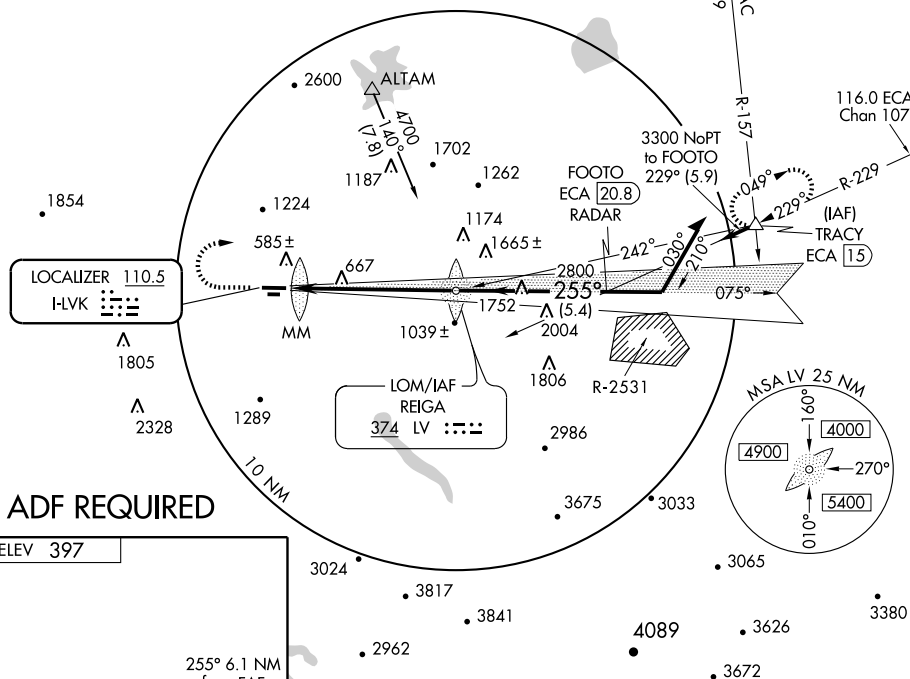
NORCAL APP CON
123.85 278.3

LIVERMORE TOWER ★
118.1 (CTAF) 0 239.25

GND CON
121.6

UNICOM
122.95

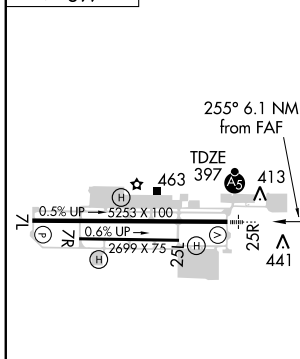
Λ 3899



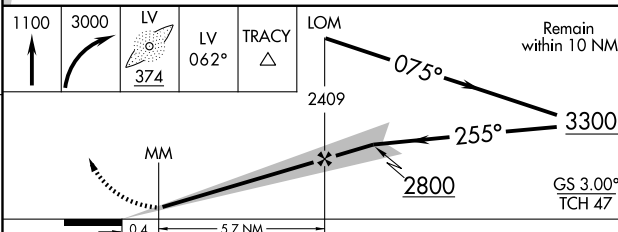
ADF REQUIRED

SW-2, 14 JAN 2010 to 11 FEB 2010

ELEV 397



MIRL Rwy 7L-25R 0



CATEGORY	A	B	C	D
S-ILS 25R	597-1/2 200 (200-1/2)			
S-LOC 25R	940-1/2 543 (600-1/2)		940-1 543 (600-1)	940-1 543 (600-1 1/4)
CIRCLING	940-1 543 (600-1)		940-1 543 (600-1 1/2)	1100-2 1/4 703 (800-2 1/4)

FAF to MAP 6.1 NM

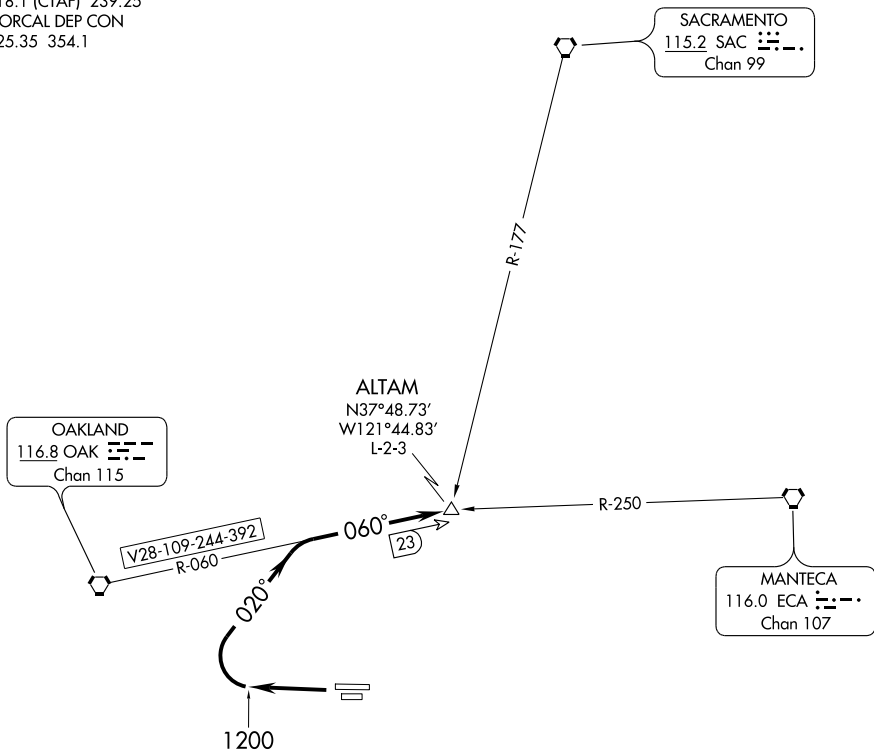
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

LIVERMORE ONE DEPARTURE

SL-6075 (FAA)

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA

ATIS 119.65
GND CON
121.6
LIVERMORE TOWER ★
118.1 (CTAF) 239.25
NORCAL DEP CON
125.35 354.1



TAKE-OFF MINIMUMS: 2300-2 or standard with a minimum climb
of 375' per NM to 3100'.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 25 L/R: Climb runway heading to 1200, then
climbing right turn heading 020° and OAK R-060 to ALTAM INT. Maintain
assigned altitude.

RNAV (GPS) RWY 25R
LIVERMORE MUNI (LVK)

MISSED APPROACH: Climb to 4000 direct DRNAY and via track 293° to FESIK.

Figure 1-1: Example of a 4-segment RNAV approach chart. The chart shows a 4-segment RNAV approach for RW25R. Segment 1: 0.5% UP, 5253 X 100, 0.6% UP, 2699 X 75, 25R, TDZE 400, 255° to RW25R. Segment 2: 2 NM to RW25R, 2020*. Segment 3: 2.9 NM to RW25R, 3200, 255°. Segment 4: 3.6 NM to RW25R, 3700, 255°. The chart also shows the UHHUT, OYAH, and FESIK airports, and the MRL Rwy 7L-25R. The chart is labeled 'MIRL Rwy 7L-25R' and 'RNAV only'.

RNAV (GPS)-B
LODI (103)

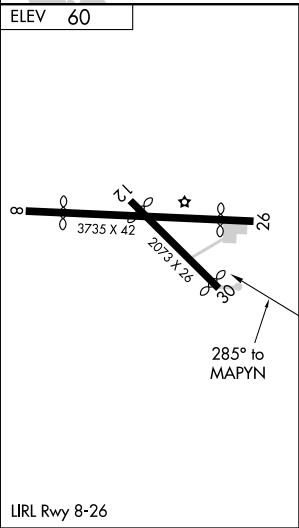
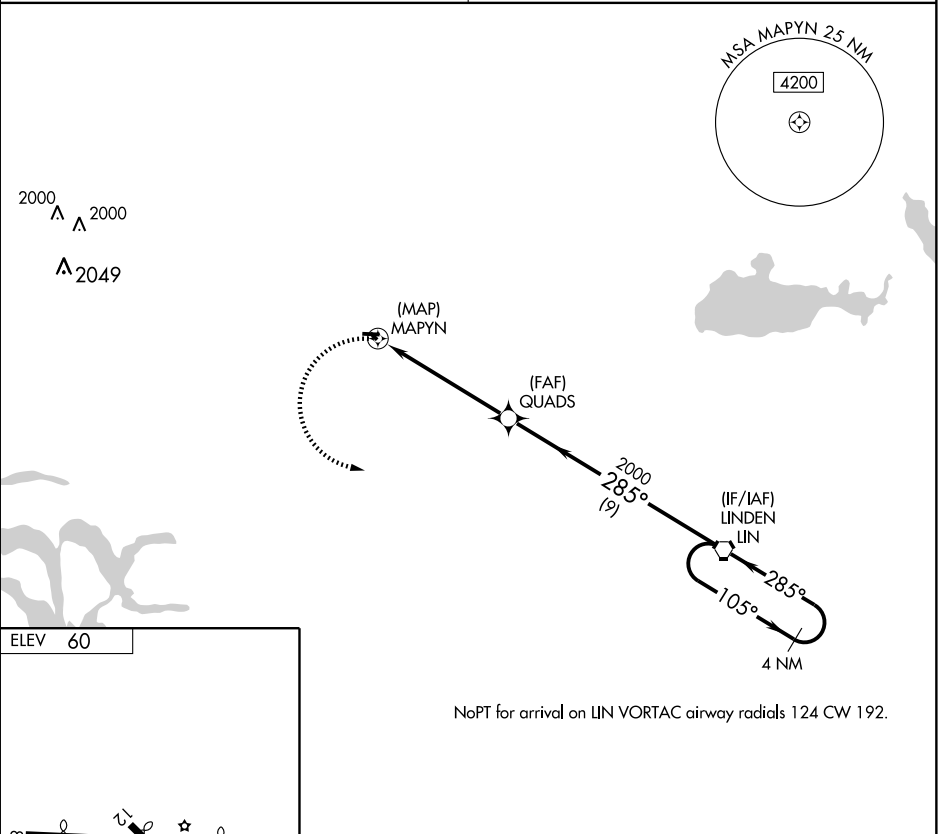
APP CRS	Rwy Idg	N/A
285°	TDZE	N/A
	Apt Elev	60

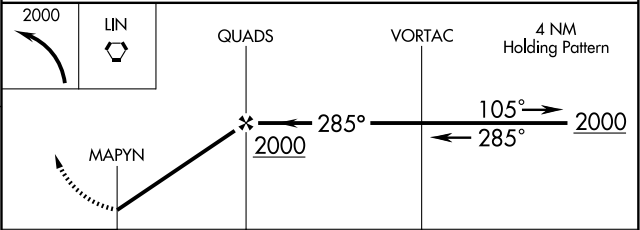
NA DME/DME RNP-0.3 NA.
Use Stockton altimeter setting, when not received, use Sacramento Init altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing left turn to 2000 direct LIN VORTAC and hold.

NORCAL APP CON
125.1 363.2

CTAF
122.9



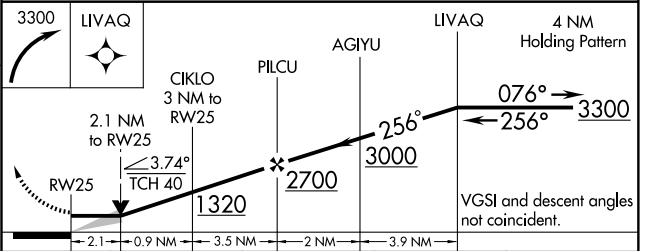
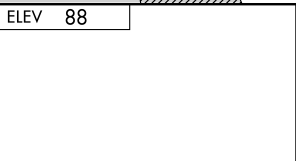
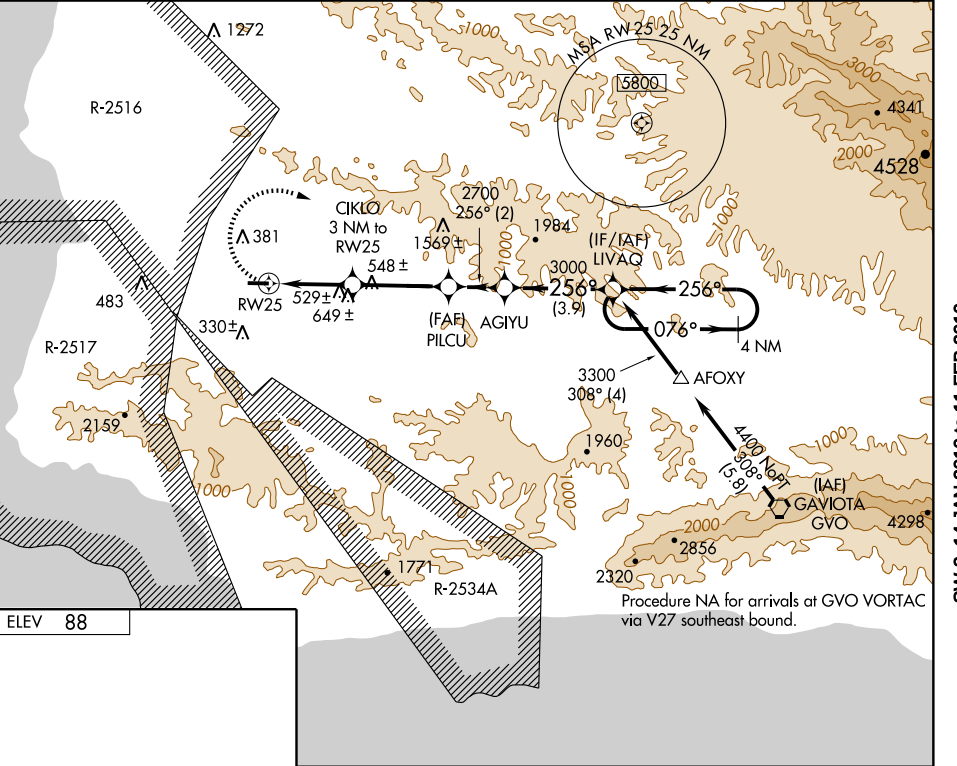
			
CATEGORY	A	B	C D
CIRCLING	640-1	580 (600-1)	NA

APP CRS	Rwy Idg	4600
256°	TDZE	88
	Apt Elev	88

⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Santa Maria Public/Captain G. Allan Hancock Field altimeter setting and increase all MDA 60 feet, and increase visibility LNAV and circling Cat B ¼ mile. VDP NA when using Santa Maria Public/Captain G. Allan Hancock Field altimeter setting.

MISSED APPROACH: Climbing right turn to 3300 direct LIVAQ and hold.

AWOS-3 133.875	SANTA BARBARA APP CON* 124.15 327.8	UNICOM 122.7 (CTAF) 0
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REIL Rwy 25 0				
MIRL Rwy 7-25 0				
CATEGORY	A	B	C	D
LNAV MDA	780-1	692 (700-1)	NA	NA
CIRCLING	780-1	692 (700-1)	NA	NA

SW-3, 14 JAN 2010 to 11 FEB 2010

▼

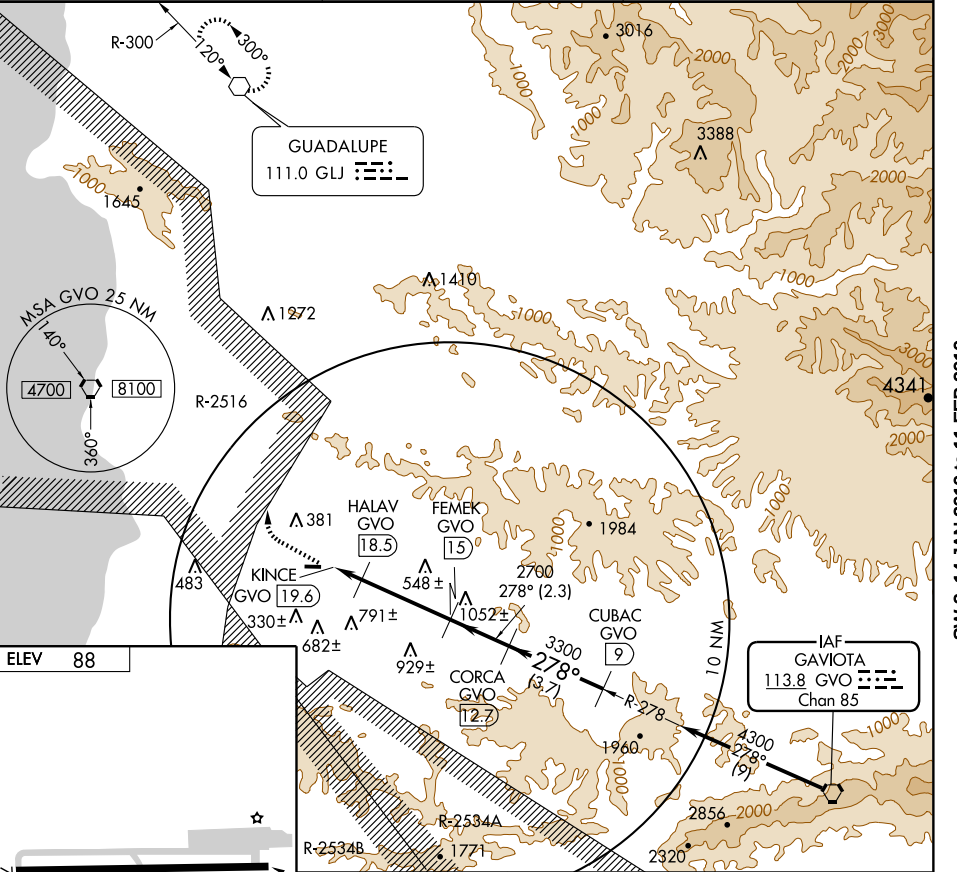
▲

MISSED APPROACH: Climb to 1400, then climbing right turn to 3500 direct GLJ VOR and hold.

AWOS-3
133.875

SANTA BARBARA APP CON*
124.15 327.8

UNICOM
122.7 (CTAF) 0

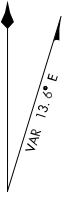


ELEV 88		4600 X 100		278° 5 NM from FAF	
1400		3500		GLJ 111.0	
KINCE GVO 19.6		HALAV GVO 18.5		FEMEK GVO 15	
CORCA GVO 12.7		CUBAC GVO 9		Procedure Turn NA	
CATEGORY		A		B	
CIRCLING		920-1 832 (900-1)		920-1¼ 832 (900-1¼)	
		C		D	
		NA			

REIL Rwy 25 0

MRL Rwy 7-25 0

ATIS
133.125 257.975
VANDENBERG TOWER ★
124.95 326.2
GND CON
121.75 275.8
CLNC DEL
121.75 275.8



AUGUST 2007
ANNUAL RATE OF CHANGE
0.1°W

ELEV
238
1000 x 200
200 RADIUS

34° 45'N

0.9% UP
122.9°

34° 44'N

RWY 12-30
PCN 42 R/C/W/T

PRIMARY
HAZARDOUS
CARGO AREA

CONTROL
TOWER
440

AM OPS
FIRE
STATION

PASSENGER
TERMINAL

ELEV
340

ELEV
350

ALTERNATE
HAZARDOUS
CARGO AREA

15,000 x 200

302.9°

FIELD
ELEV
369

SHUTTLE TOW ROUTE
NOT A TAXIWAY

1000 x 200

34° 43'N

120° 36'W

120° 35'W

120° 34'W

SW-3, 14 JAN 2010 to 11 FEB 2010

GAVIOTA ONE DEPARTURE (GVO1.GVO)

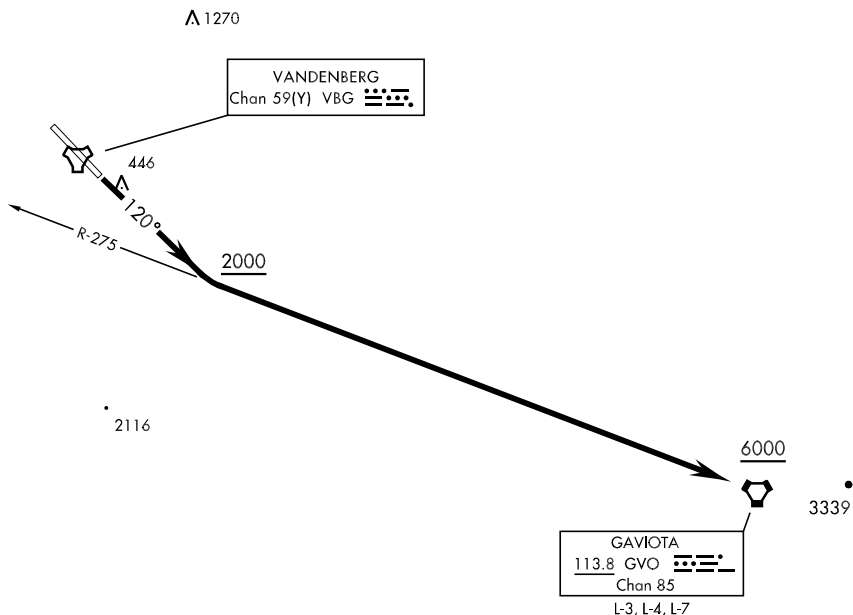
SL-770 [USAF]

LOMPOC, CALIFORNIA

ATIS
133.125 257.975
GND CON
121.75 275.8
CLNC DEL
121.75 275.8
VANDENBERG TOWER
124.95 326.2
SANTA BARBARA DEP CON
124.15 327.8

Rwy	Knots	60	120	180	240
12	V/V(fpm)	280	560	840	1120

Minimum Climb Rate to 2000.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 12: Cross DER at or above 35' AGL/404' MSL, climb on track 120° to 2000 then turn left and intercept the GVO VORTAC R-275 inbound. Cross GVO at or above 6000. Expect vectors to first filed fix/route prior to GVO.

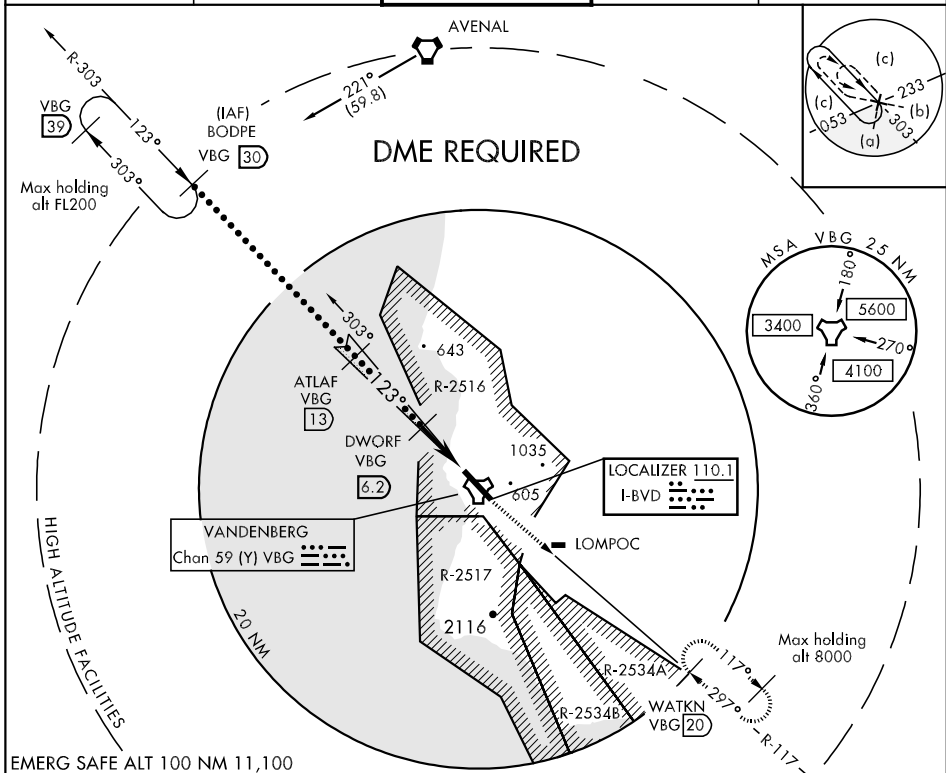
LOC I-BVD 110.1	APCH CRS 123°	Rwy Idg 15,000 TDZE 267 Arpt Elev 369
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JAL-770 [USAF]

VANDENBERG AFB (KVBG)

▼ * When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile. ** When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{4}$ mile, CAT DE vis to $1\frac{1}{2}$ mile.	ALSF-2	MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.
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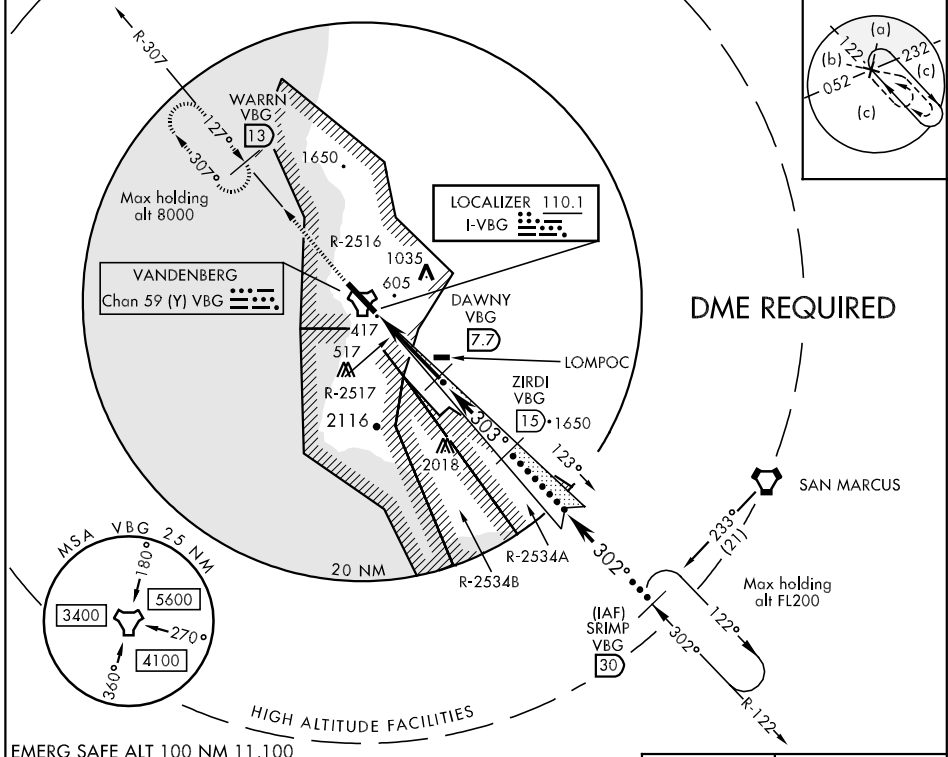
ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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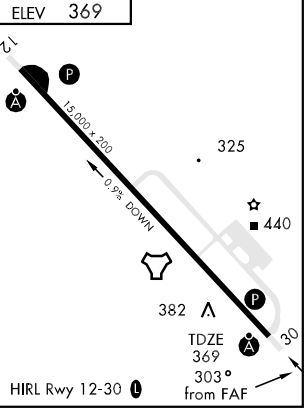
EMERG SAFE ALT 100 NM 11,100

BODPE R-303 FL180	ATAF VBG 13	DWORF VBG 6.2	7000 VBG R-117	WATKN VBG 20	ELEV 369 123° from FAF 315 284 TDZE 267 15,000-200 0.28 UP
GS 3.00° TCH 53	VGSI and descent angles not coincident	1800	2.7 BIMGE 2	TACAN	440
4.2 NM 0.6 NM					
CATEGORY	C	D	E		
S-ILS 12 *	467/24	200	(100- $\frac{1}{2}$)		
S-LOC/ DME 12 **	700/40 433 (400- $\frac{3}{4}$)	700/50	433 (400-1)		
CIRCLING	1020-1 $\frac{3}{4}$ 651 (700-1 $\frac{3}{4}$)	1040-2 $\frac{1}{4}$ 671 (700-2 $\frac{1}{4}$)	1540-3 1171 (1200-3)		

LOC I-VBG 110.1	APCH CRS 303°	Rwy Idg 15,000 TDZE 369 Arpt Elev 369	JAL-770 [USAF]	VANDENBERG AFB (KVBG)
▼ * When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile. ** When ALS inop, increase CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to $1\frac{3}{4}$ miles, CAT E vis to 2 miles.			ALSF-2 	MISSED APPROACH: Climb out VBG TACAN R-307 to WARRN and hold. Continue climb in hold maintain 4000.
ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8



4000 VBG R-307	WARRN VBG 13	DAWNY 7.7	ZIRDI 15	SRIMP R-122 30	FL180
TACAN	FABUR 1.5	2.6	2600	4800	GS 3.00° TCH 53
0.5 NM ← 6.2 NM					
CATEGORY	C	D	E		
S-ILS 30 *	569/24	200 (200- $\frac{1}{2}$)			
S-LOC/DME 30 **	940/50 571 (600-1)	940/60 571 (600-1 $\frac{1}{4}$)	940-1 $\frac{1}{2}$ 571 (600-1 $\frac{1}{2}$)		
CIRCLING	1020-1 $\frac{3}{4}$ 651 (700-1 $\frac{3}{4}$)	1040-2 $\frac{1}{4}$ 671 (700-2 $\frac{1}{4}$)	1540-3 1171 (1200-3)		



SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN VBG Chan 59(Y)	APCH CRS 127°	Rwy Idg 15,000 TDZE 267 Arpt Elev 369
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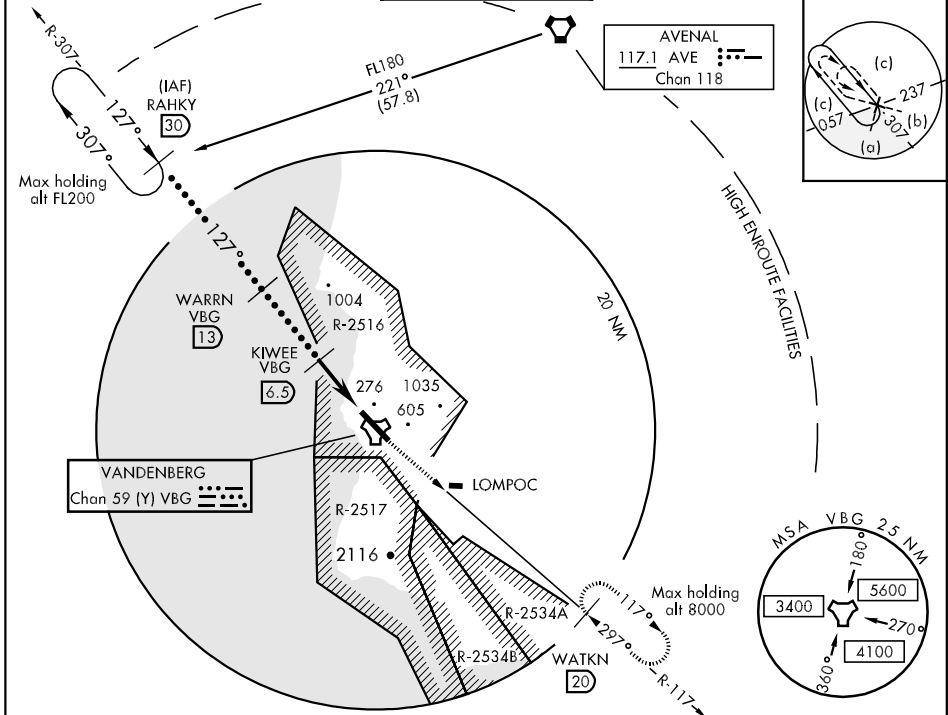
JAL-770 [USAF]

VANDENBERG AFB (KVBG)

✦ When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles, CAT DE increase vis to 1½ miles.

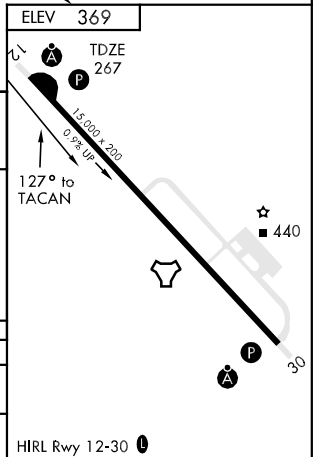
MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100

	RAHKY R-307 30	WARRN 13	KIWEE 6.5	DOYEB 2.8	TACAN 2
	FL180	127°	3000	1900	
	3.00° TCH 72				
CATEGORY	C	D	E		
S-12 *	740/40 473 (400-¾)	740/50 473 (400-1)	740/60 473 (400-1¼)		
CIRCLING	1020-1¾ 651 (700-1¾)	1040-2 ¼ 671 (700-2¼)	1540-3 1171 (1200-3)		



SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN VBG Chan 59(Y)	APCH CRS 297°	Rwy Idg 15,000 TDZE 369 Arpt Elev 369
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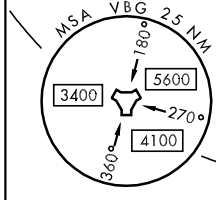
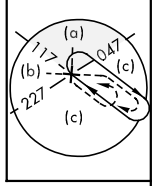
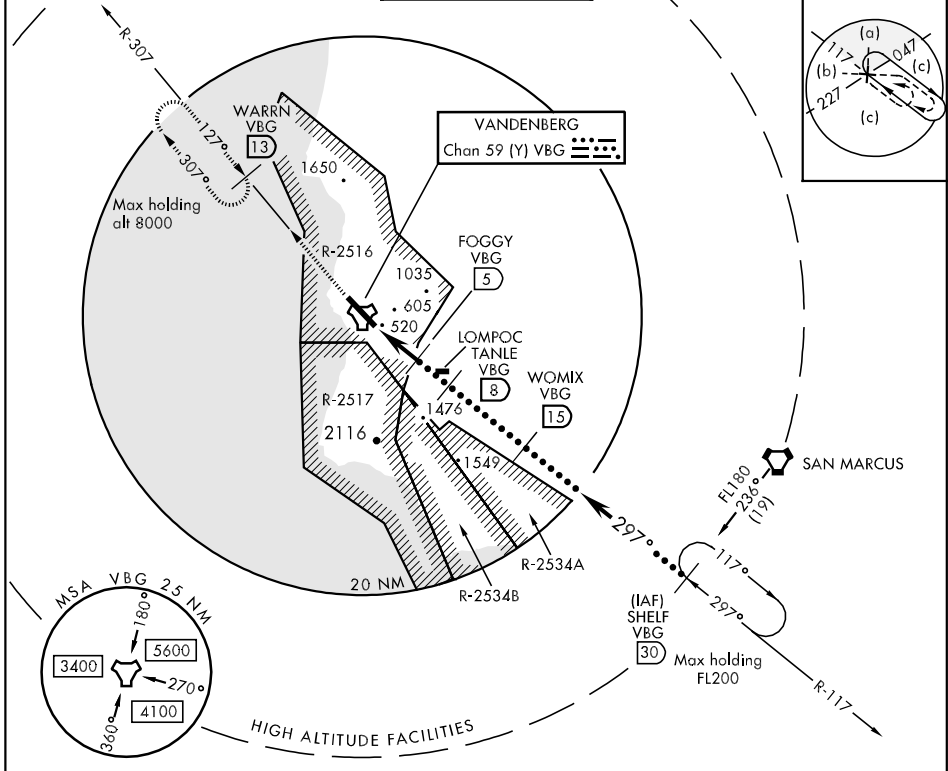
JAL-770 [USAF]

VANDENBERG AFB (KVBG)

▽ * When ALS inop, increase CAT C vis to 1½ miles, CAT D vis to 1¾ miles, and CAT E vis to 2 miles.

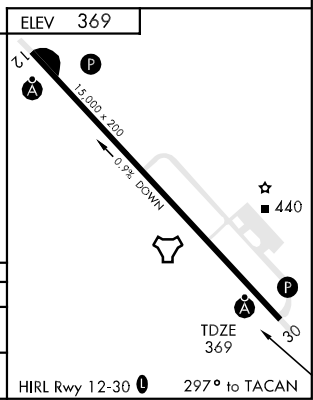
ALSF-2
MISSED APPROACH: Climb out VBG TACAN R-307 to WARRN and hold. Continue climb in hold maintain 4000.

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100

4000 ↑ VBG R-307	WARRN VBG 13	FOGGY 5	TANLE 8	WOMIX 15	SHELF R-117 30
TACAN	WIMRI 1.5	2.4	5	2400	4600
1800					
FL180					
3.20° TCH 71					
0.5 3.5 NM					
CATEGORY	C	D	E		
S-30 *	920/50 551 (600-1)	920/60 551 (600-1¼)	920-1½ 551 (600-1½)		
CIRCLING	1020-1¾ 651 (700-1¼)	1040-2¼ 671 (700-2¼)	1540-3 1171 (1200-3)		



SW-3, 14 JAN 2010 to 11 FEB 2010

LOC I-BVD 110.1	APCH CRS 123°	Rwy Idg 15,000 TDZE 267 Arprt Elev 369
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AL-770 [USAF]

VANDENBERG AFB (KVBG)

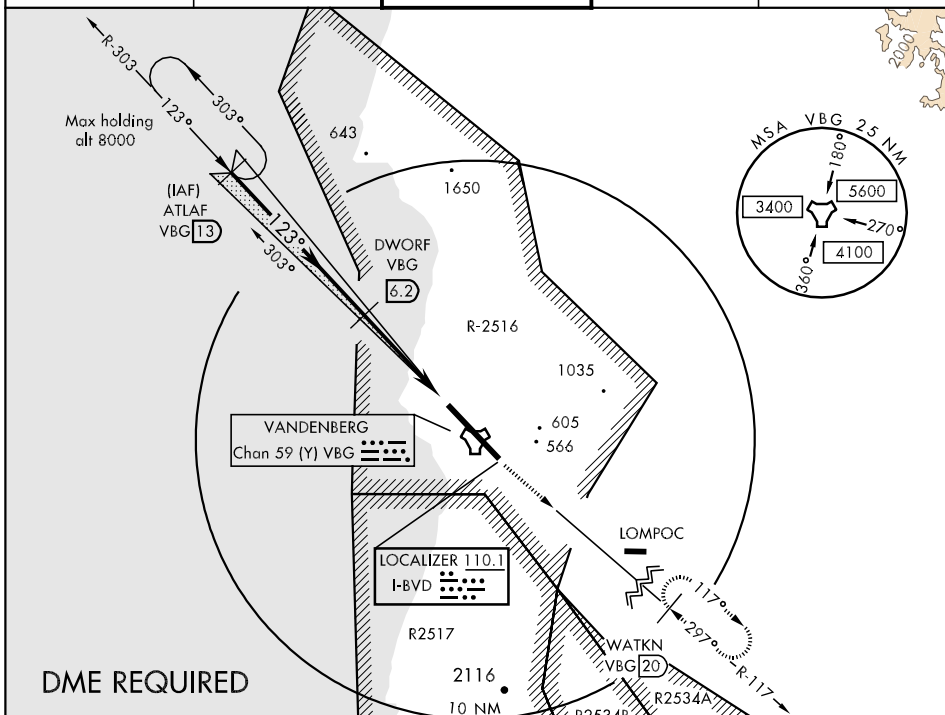
▼ *When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.
 **When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{2}$ mile, CAT DE vis to $1\frac{1}{2}$.

ALSF-2

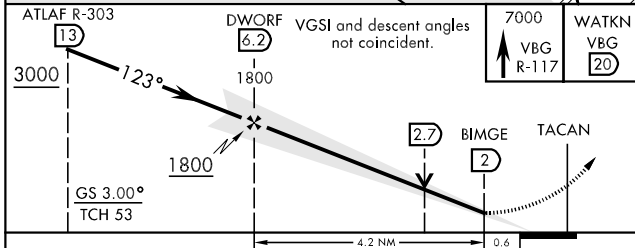


MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.

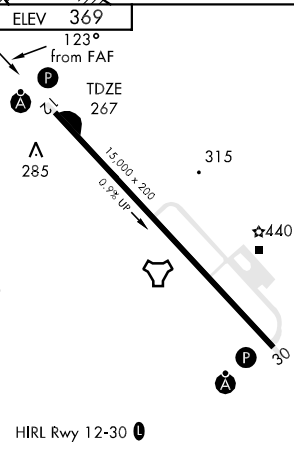
ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.950 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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**DME REQUIRED**

EMERG SAFE ALT 100 NM 11,100



CATEGORY	A	B	C	D	E
S-ILS 12 *	467/24		200	(100- $\frac{1}{2}$)	
S-LOC/ DME 12 **	700/24	433 (400- $\frac{1}{2}$)	700/40 433 (400- $\frac{3}{4}$)	700/50	433 (400-1)
CIRCLING	980-1 611 (700-1)	1000-1 631 (700-1)	1020-1 $\frac{3}{4}$ 651 (700-1 $\frac{3}{4}$)	1040-2 $\frac{1}{4}$ 671 (700-2 $\frac{1}{4}$)	1540-3 1171 (1200-3)



LOC I-VBG 110.1	APCH CRS 303°	Rwy ldg 15,000 TDZE 369 Arpt Elev 369
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AL-770 [USAF]

VANDENBERG AFB (KVBG)

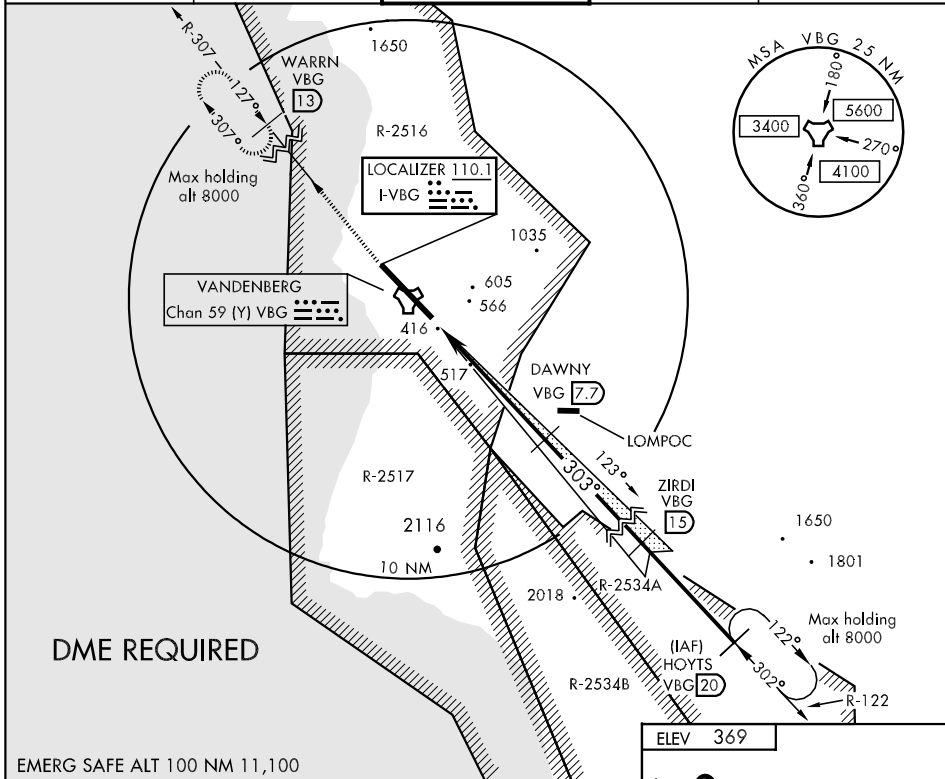
▼ * When ALS inop, increase CAT ABCDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
 CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to $1\frac{3}{4}$ miles, CAT E vis to 2 miles.

ALS-F-2



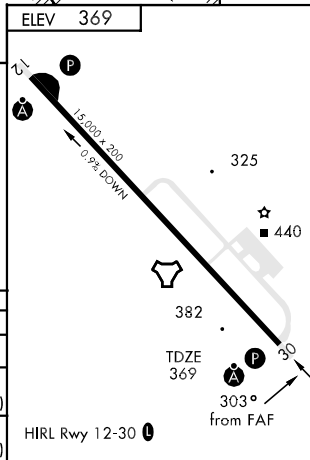
MISSED APPROACH: Climb out VBG
 TACAN R-307 to WARRN and hold.
 Continue climb in hold maintain 4000.

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100

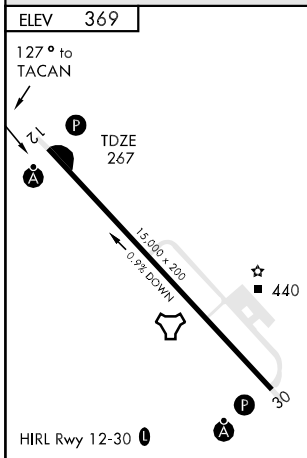
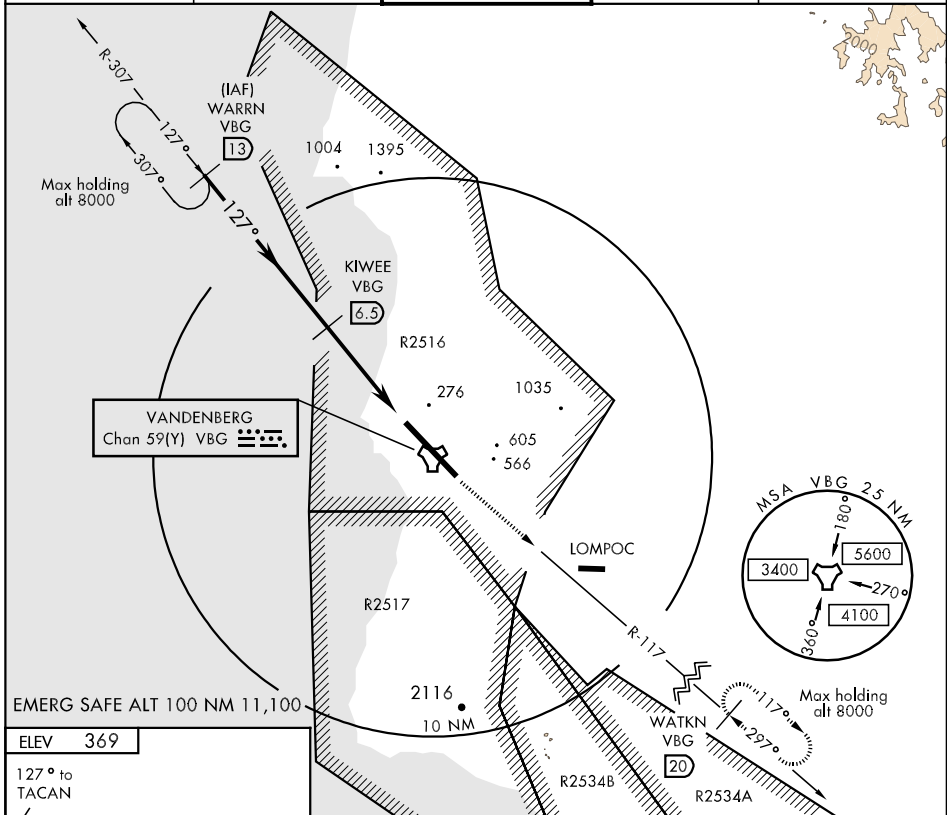
4000 VBG R-307	WARRN VBG 13	DAWNY 7.7	ZIRDI 15	HOYTS R-122 20	
TACAN	FABUR 1.5	2600	2600	4800	
0.5 NM	6.2 NM			6000	
CATEGORY	A	B	C	D	E
S-ILS 30 *	569/24 200 (200-½)				
S-LOC/ DME 30 **	940/24 611 (700-1)	571 (600-½) 631 (700-1)	940/50 571 (600-1)	940/60 571 (600-1¼)	940-1½ 571 (600-1½)
CIRCLING	980-1 611 (700-1)	1000-1 631 (700-1)	1020-1¾ 651 (700-1¾)	1040-2¼ 671 (700-2¼)	1540-3 1171 (1200-3)



TACAN VBG Chan 59(Y)	APCH CRS 127°	Rwy Idg 15,000 TDZE 267 Arpt Elev 369	AL-770 [USAF]	VANDENBERG AFB (KVBG)
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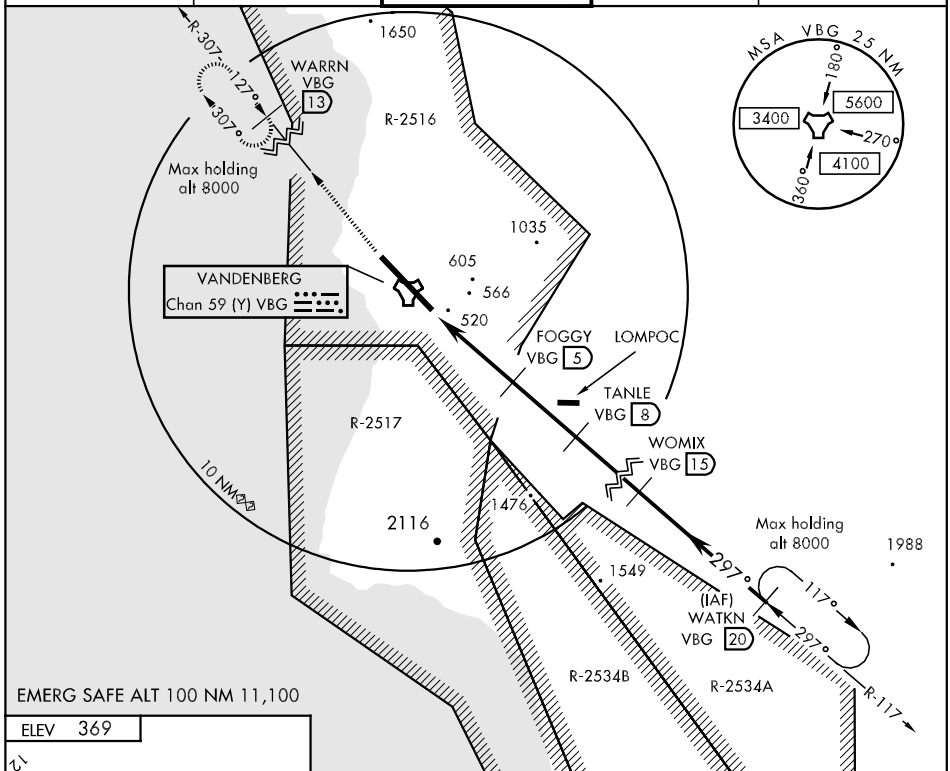
* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT DE increase vis to 1½ miles.	ALSF-2	MISSED APPROACH: Climb out VBG TACAN R-117 until 20 DME (WATKN) and hold. Continue climb in hold maintain 7000.
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ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.95 0 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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WARRN 13 3000 127° 1900 KIWEE 6.5 2.8 DOYEB 2 TACAN 7000 VBG R-117 WATKN 20 VBG 3.00° TCH 72 4.5 NM 0.5						
CATEGORY	A		B	C	D	E
S-12 *	740/24 473 (400-½)		740/40 473 (400-¾)	740/50 473 (400-1)	740/60 473 (400-1¼)	
CIRCLING	980-1 611 (700-1)	1000-1 631 (700-1)	1020-1¼ 651 (700-1¾)	1040-2¼ 671 (700-2¾)	1540-3 1171 (1200-3)	

ATIS 133.125 257.975	SANTA BARBARA APP/DEP CON 124.15 327.8	VANDENBERG TOWER ★ 124.950 (CTAF) 326.2	GND CON 121.75 275.8	CLNC DEL 121.75 275.8
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EMERG SAFE ALT 100 NM 11,100

4000 ↑ VBG R-307		WARRN VBG (13)		FOGGY (5) TANLE (8) WOMIX (15) WATKN R-117 (20) 297° 6000		
TACAN		WIMRI (1.5)		1800 2400 4600		
		3.5 NM		3.20° TCH 71		
CATEGORY	A		B	C	D	E
S-30 *	920/24 551 (600-½)			920/50 551 (600-1)	920/60 551(600-1¼)	920-1½ 551(600-1½)
CIRCLING	980-1 611 (700-1)	1000-1 631 (700-1)	1020-1¾ 651(700-1¾)	1040-2¼ 671(700-2¼)	1540-3 1171(1200-3)	

VANDENBERG ONE DEPARTURE (VBG1.MQO)

VANDENBERG AFB (RVBG)
LOMPOC, CALIFORNIA

ATIS
133.125 257.975
GND CON
121.75 275.8
CLNC DEL
121.75 275.8
VANDENBERG TOWER
124.95 326.2
SANTA BARBARA DEP CON
124.15 327.8

SL-770 [USAF]

Rwy	Knots	60	120	180	240
30	V/V(fpm)	230	460	690	920

• Minimum Climb Rate to 700.

4000



2808

MORRO BAY
112.4 MQO
Chan 71
L-3, L-7

335°

1300

R-155

303°

447

1377



VANDENBERG
Chan 59(Y) VBG

DEPARTURE ROUTE DESCRIPTION

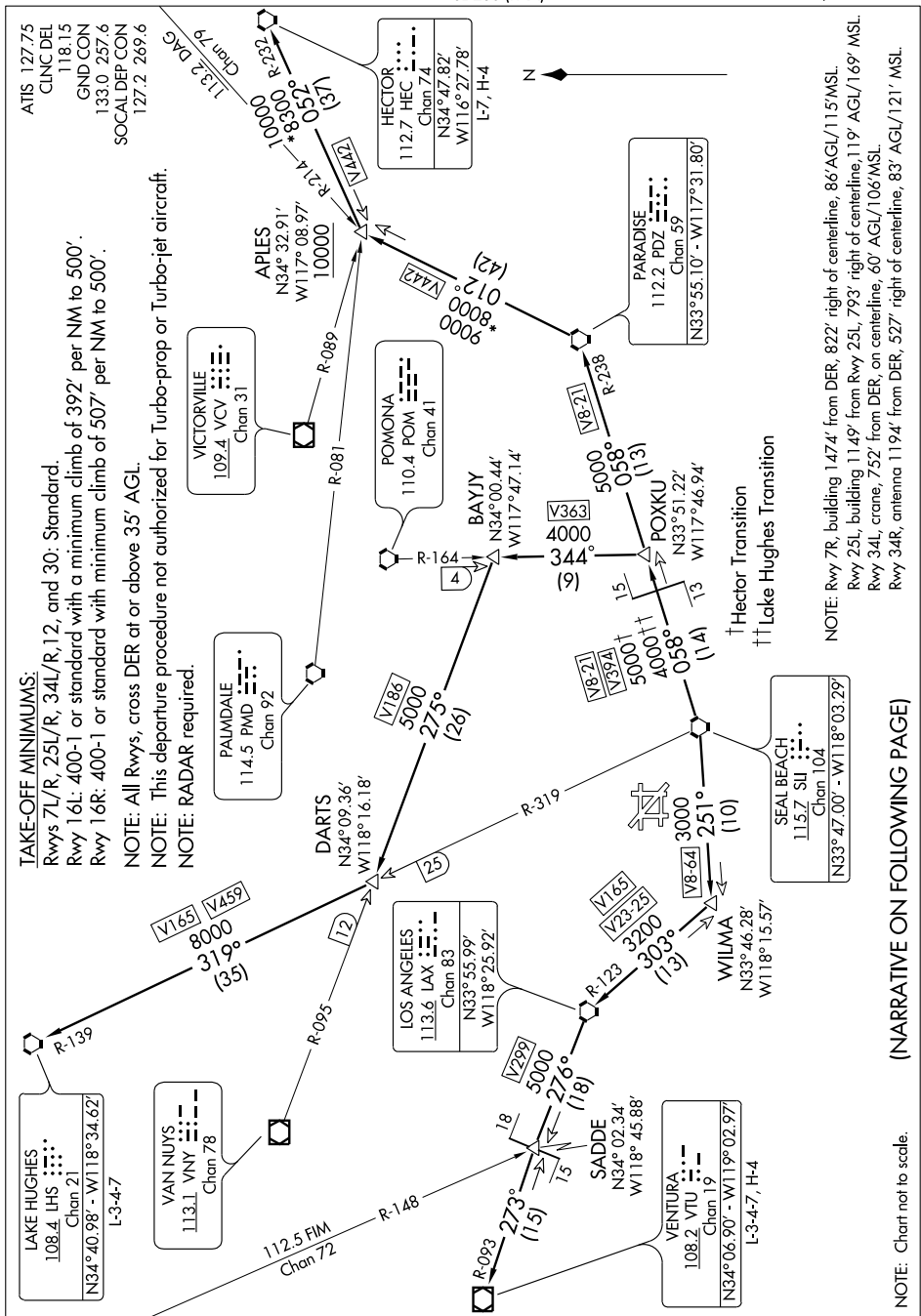
TAKE-OFF RWY 30: Cross DER at or above 35' AGL/274' MSL, climb on track 303° to join MQO VORTAC R-155 at or above 1300, direct MQO. Cross MQO at or above 4000. Expect vectors to first filed fix/route prior to MQO.



ANAHEIM THREE DEPARTURE

SL-236 (FAA)

LONG BEACH, CALIFORNIA



(NARRATIVE ON FOLLOWING PAGE)

SW-3, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

HECTOR or LAKE HUGHES TRANSITION: Climb runway heading to 800' then fly assigned heading for radar vectors to SLI VORTAC. Thence. . . .

VENTURA TRANSITION: Climb runway heading to 800' then fly assigned heading for radar vectors to LAX VORTAC. Thence. . . .

. . . .via (transition) or (assigned route). Maintain assigned altitude. Expect clearance to filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM3.HEC): From over SLI VORTAC via SLI R-058 and PDZ R-238 to PDZ VORTAC, then via PDZ R-012 and HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM3.LHS): From over SLI VORTAC via SLI R-058 and PDZ R-238 to POXKU INT, then via POM R-164 to BAYJY INT, then via VNY R-095 to DARTS INT. Thence via SLI R-319 and LHS R-139 to LHS VORTAC.

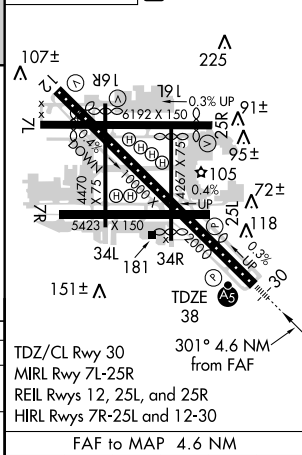
VENTURA TRANSITION (ANAHM3.VTU): From over SLI VORTAC via SLI R-251 to WILMA INT, then via LAX R-123 to LAX VORTAC, then via LAX R-276 and VTU R-093 to VTU VOR/DME.

ILS or LOC RWY 30

MALSR

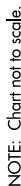
MISSED APPROACH: Climb to 800 then climbing left turn to 2600 via heading 200° and LAX R-145 to PADDR INT/LAX 22 DME and hold.

ELEV 60	D
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Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

LONG BEACH, CALIFORNIA

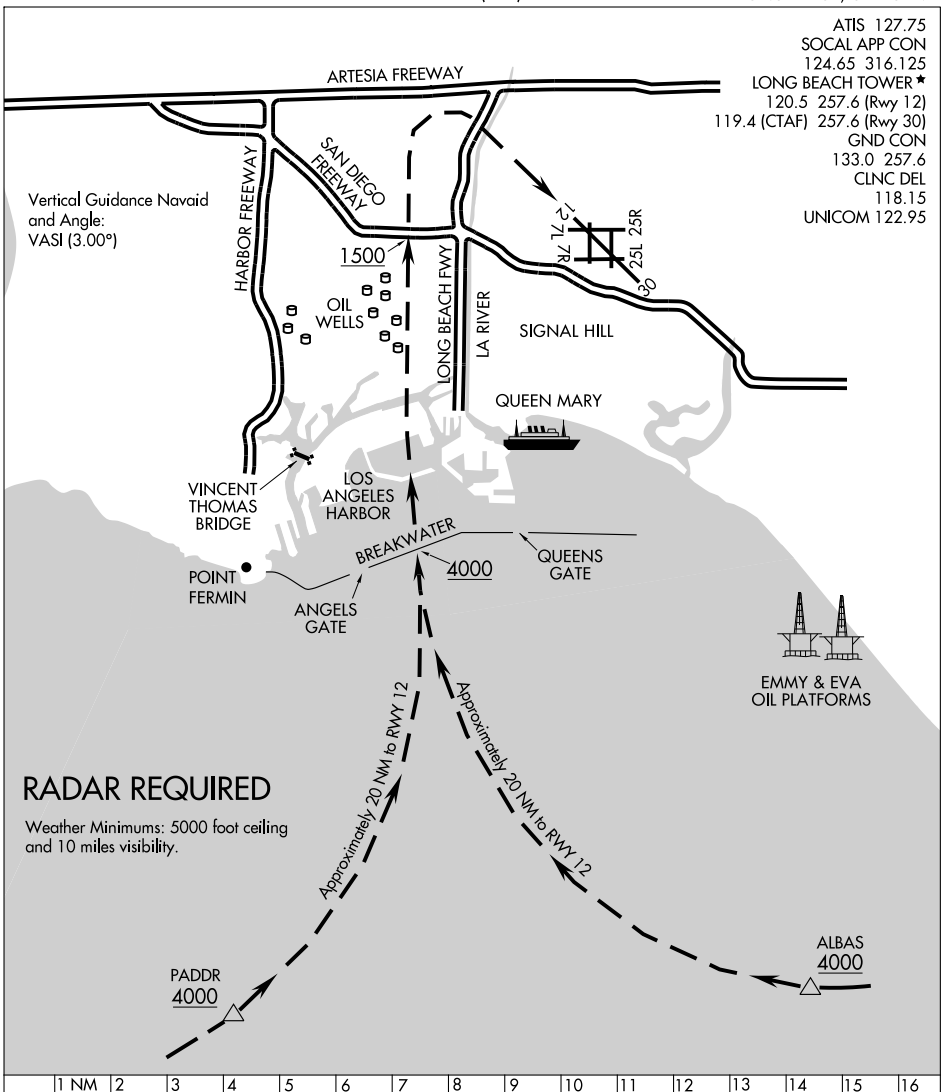


LA RIVER VISUAL RWY 12

AL-236 (FAA)

LONG BEACH (DAUGHERTY FIELD) (LGB)

LONG BEACH, CALIFORNIA



ATIS 127.75

SOCAL APP CON

124.65 316.125

LONG BEACH TOWER *

120.5 257.6 (Rwy 12)

119.4 (CTAF) 257.6 (Rwy 30)

GND CON

133.0 257.6

CLNC DEL

118.15

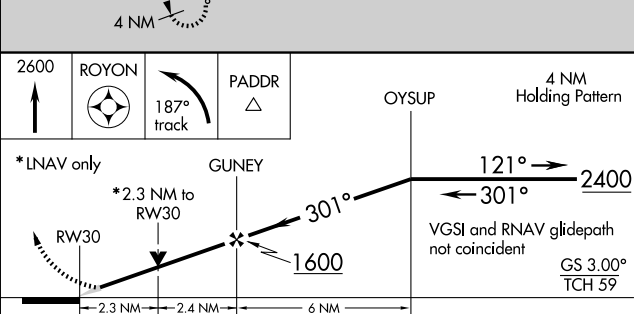
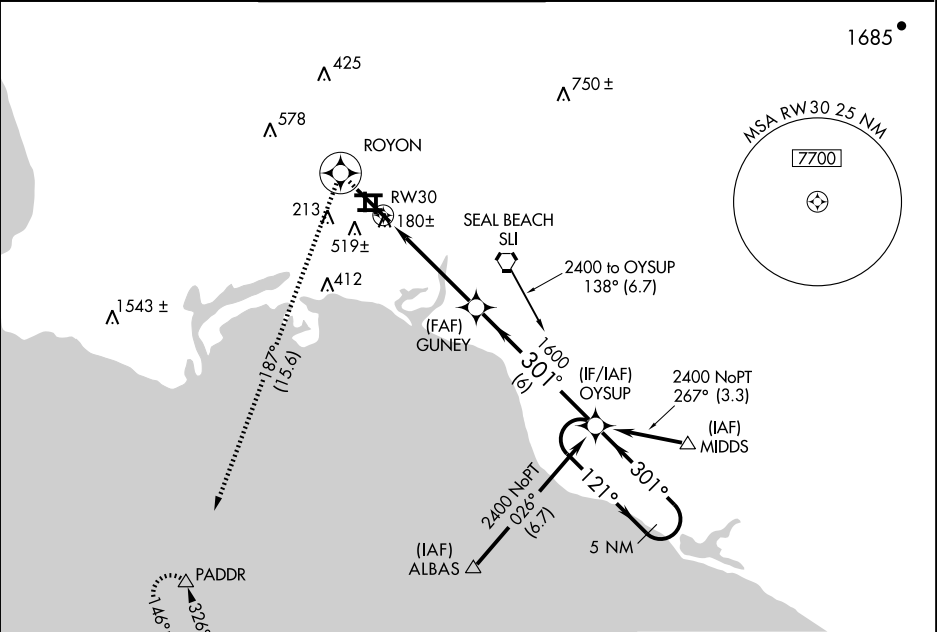
UNICOM 122.95

WAAS CH 90120 W30A	APP CRS 301°	Rwy Idg TDZE Apt Elev	8000 38 60
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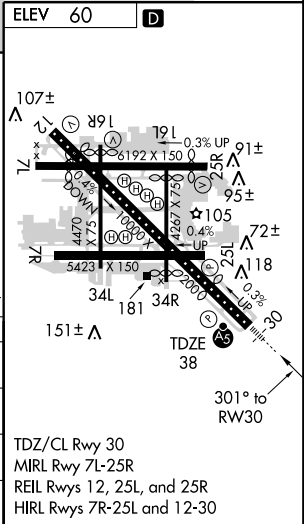
RNAV (GPS) Z RWY 30
LONG BEACH (DAUGHERTY FIELD) (LGB)

 Baro-VNAV NA below -15°C (5°F). DME/DME RNP- 0.3 NA.	 MALSR	MISSED APPROACH: Climb to 2600 direct ROYON and left turn via 187° track to PADDR and hold.
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ATIS 127.75	SOCAL APP CON 124.65 316.125	LONG BEACH TOWER★ 120.5 257.6 (Rwy 12) 119.4 (CTAF) 257.6 (Rwy 30)	GND CON 133.0 257.6	CLNC DEL 118.15	UNICOM 122.95
-----------------------	--	---	-------------------------------	---------------------------	-------------------------



CATEGORY	A	B	C	D
LPV DA	290/24 252 (300-½)			
RNAV/VNAV DA	657-1¾ 619 (600-1¾)			
RNAV MDA	820/24 782 (800-½)	820/40 782 (800-¾)	820-1¾ 782 (800-1¾)	820-2 782 (800-2)
CIRCLING	880-2½ 820 (900-2½)	820 (900-2½)	880-2½ 820 (900-2½)	880-2¾ 820 (900-2¾)



APP CRS	Rwy Idg	8650
121°	TDZE	53
	Apt Elev	60

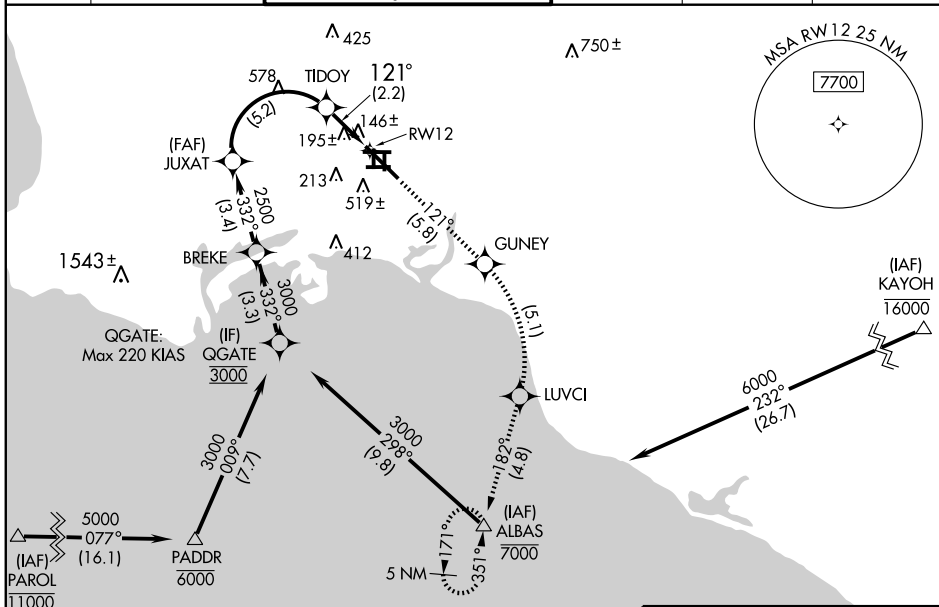
RNAV (RNP) RWY 12

LONG BEACH (DAUGHERTY FIELD) (LGB)

NA RF and GPS required.
 Procedure NA when control tower closed.
 For uncompensated Baro-VNAV systems, procedure NA below 3°C (37°F) or above 49°C (121°F).
 Visibility reduction by helicopters NA.

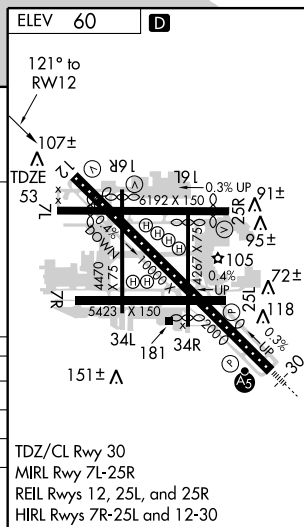
MISSED APPROACH: Climb to 3000 via 121° track to GUNEE, right radius turn to LUVCI, 182° track to ALBAS and hold.

ATIS 127.75	SOCAL APP CON 124.65 316.125	LONG BEACH TOWER★ 120.5 257.6 (Rwy 12) 119.4 (CTAF) 0 257.6 (Rwy 30)	GND CON 133.0 257.6	CLNC DEL 118.15	UNICOM 122.95
-----------------------	--	---	-------------------------------	---------------------------	-------------------------



QGATE	BREKE	JUXAT	TIDOY	RW12
3000	3000	2500	2500	798
GP 3.00° TCH 47	332°	332°	121°	
3.3 NM	3.4 NM	5.2 NM	2.2 NM	
CATEGORY	A	B	C	D
RNP 0.13 DA	371-1 318 (400-1)			
RNP 0.19 DA	388-1¼ 335 (400-1¼)			
RNP 0.30 DA	478-1½ 425 (500-1½)			

**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**



TDZ/CL Rwy 30
 MIRL Rwy 7L-25R
 REIL Rws 12, 25L, and 25R
 HIRL Rws 7R-25L and 12-30

APP CRS	Rwy Idg	5661
256°	TDZE	48
	Apt Elev	60

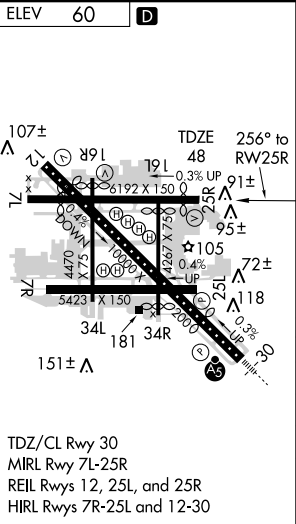
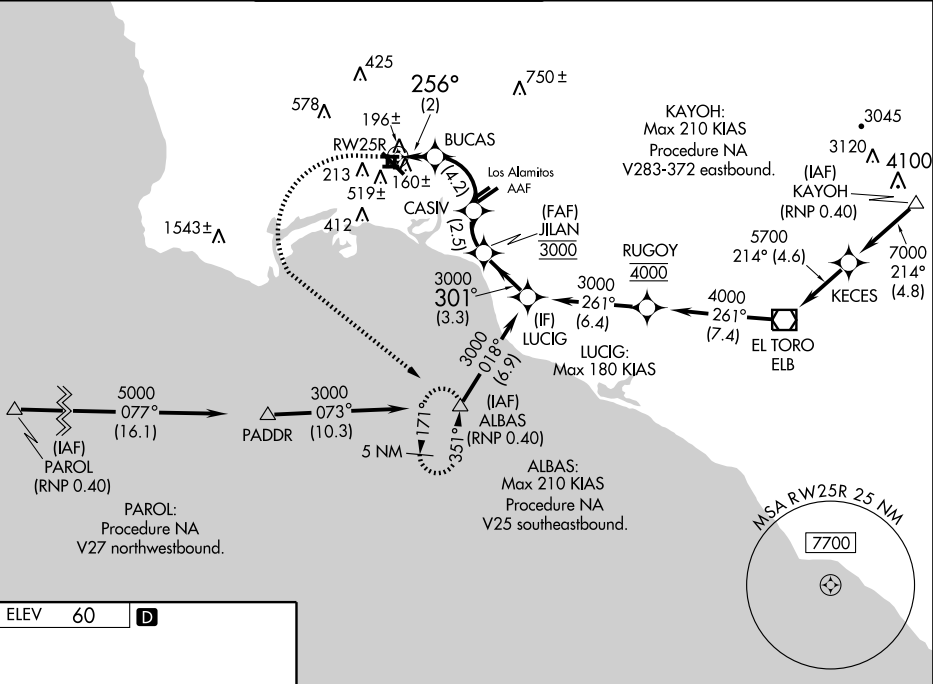
RNAV (RNP) RWY 25R

LONG BEACH (DAUGHERTY FIELD) (LGB)

⚠ RF and GPS required. Procedure NA when control tower closed.
For uncompensated Baro-VNAV systems, procedure NA below 3°C (38°F) or above 39°C (102°F).
* NA at night. Visibility reduction by helicopters NA.
Missed approach requires minimum climb of 370 feet per NM to 500.

MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 direct ALBAS and hold.

ATIS 127.75	SOCAL APP CON 124.65 316.125	LONG BEACH TOWER★ 120.5 257.6 (Rwy 12) 119.4 (CTAF) 0 257.6 (Rwy 30)	GND CON 133.0 257.6	CLNC DEL 118.15	UNICOM 122.95
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1000 3000 ALBAS

Procedure Turn NA

VGSI and RNAV glidepath not coincident.

BUCAS 756

CASIV 2158

JILAN 3000

LUCIG Max 180 KIAS

301° 3000

GP 3.10° TCH 55

256°

2 NM 4.2 NM 2.5 NM 3.3 NM

CATEGORY	A	B	C	D
RNP 0.15 DA*#		352-1	304 (300-1)	
RNP 0.30 DA*		403-1¼	355 (400-1¼)	
RNP 0.30 DA		460-1½	412 (400-1½)	

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

APP CRS	Rwy Idg	8000
301°	TDZE	38
	Apt Elev	60

RNAV (RNP) Y RWY 30

LONG BEACH (DAUGHERTY FIELD) (LGB)

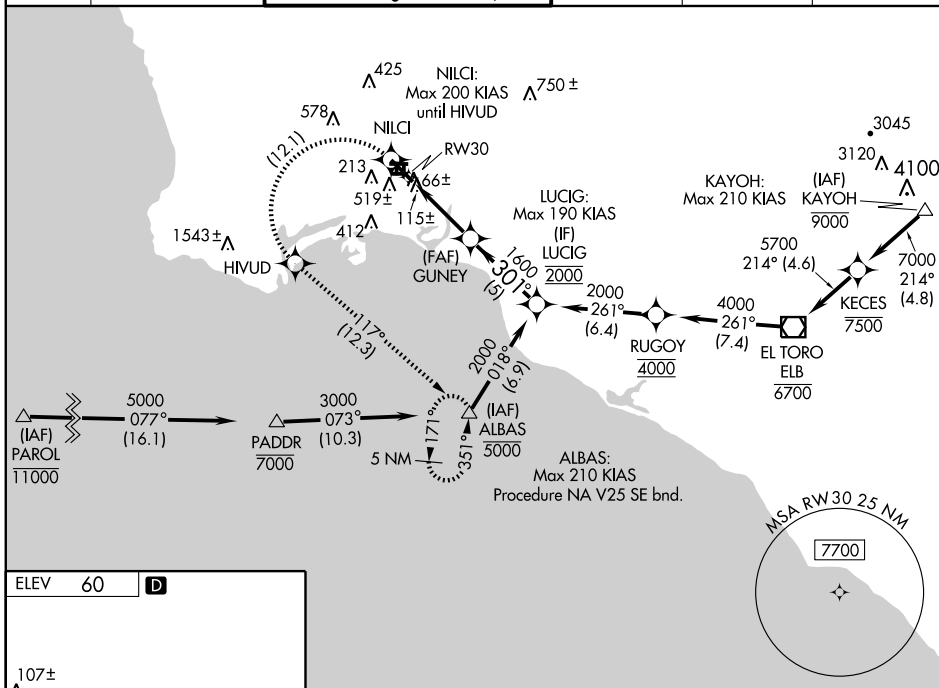
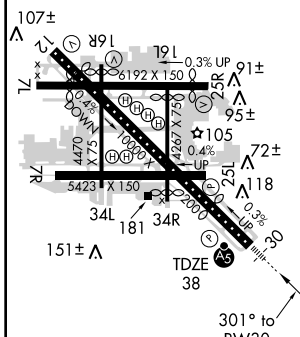
NA RF and GPS required. Procedure NA when control tower closed.
For uncompensated Baro-VNAV systems, procedure NA below 3° C (37° F) or above 48° C (119° F).
Missed approach requires RNP less than 1.0.
For inoperative MALSR, increase RNP 0.13 visibility to RVR 5000, and RNP 0.30 visibility to RVR 6000.
* When VGSI inoperative, procedure NA at night.

MALSR



MISSED APPROACH: Climb to 3000 via 301° track to NILCI, left radius turn to HIVUD, 117° track to ALBAS and hold.

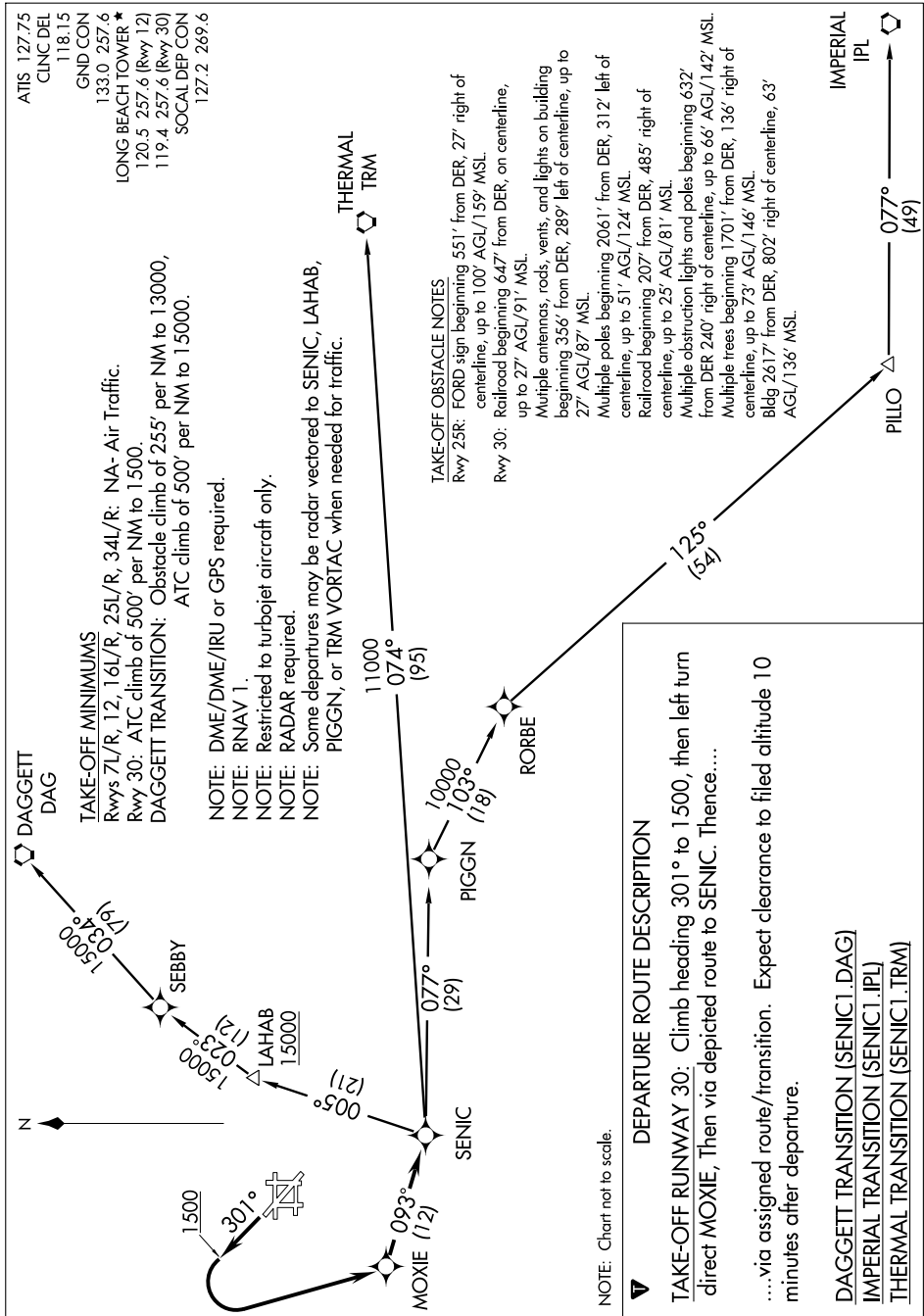
ATIS 127.75	SOCAL APP CON 124.65 316.125	LONG BEACH TOWER★ 120.5 257.6 (Rwy 12) 119.4 (CTAF) 0 257.6 (Rwy 30)	GND CON 133.0 257.6	CLNC DEL 118.15	UNICOM 122.95
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ELEV 60 **D**

TDZ/CL Rwy 30
MIRL Rwy 7L-25R
REIL Rwy 12, 25L, and 25R
HIRL Rwy 7R-25L and 12-30

3000	NILCI	HIVUD	117° track	ALBAS	Procedure Turn NA	LUCIG
301° track						
VGSI and RNAV glidepath not coincident.						
4.7 NM 5 NM GP 3.00° TCH 59						
CATEGORY	A	B	C	D		
RNP 0.13 DA		358/40	320 (300-¾)			
RNP 0.30 DA*		408/40	370 (400-¾)			

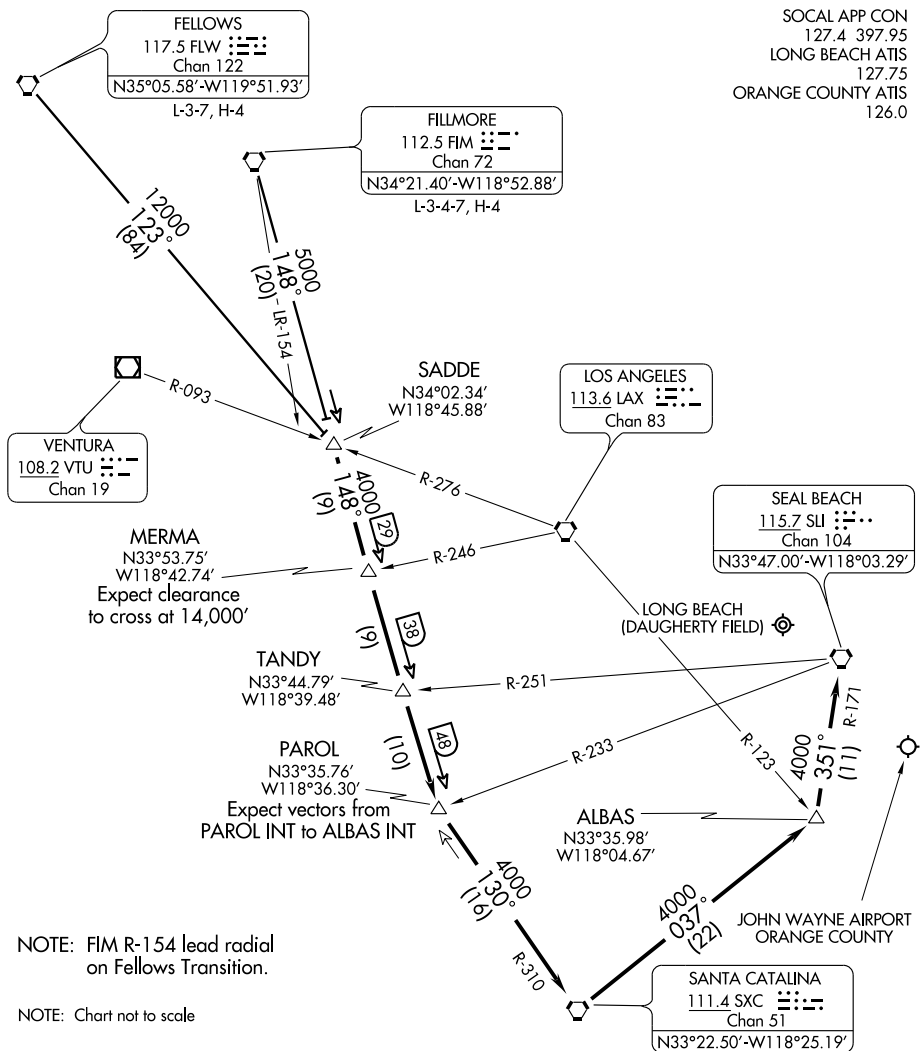
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



TANDY THREE ARRIVAL

ST-236 (FAA)

LONG BEACH, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

FELLOWS TRANSITION (FLW.TANDY3): From over FLW VORTAC via FLW R-123 to SADDE INT. Thence....

FILLMORE TRANSITION (FIM.TANDY3): From over FIM VORTAC via FIM R-148 to SADDE INT. Thence....

....From over SADDE INT via FIM R-148 to PAROL INT. From over PAROL INT via SXC R-310 to SXC VORTAC. Then from over SXC VORTAC via SXC R-037 and SLI R-171 to SLI VORTAC.

VOR or TACAN RWY 30
LONG BEACH (DAUGHERTY FIELD) (LGB)



MISSED APPROACH: Climbing left turn to 2500 via heading 200° and LAX R-145 to PADDR Int/LAX 22 DME and hold.

Figure 1: Schematic diagram of the experimental setup. A laser beam (0.7 m) is directed at a sample (4 NM) at an angle of 275 degrees. The sample is labeled MAJCU SLI (4). The beam is reflected at an angle of 120 degrees and 300 degrees, with a distance of 1500 m. The angle of reflection is labeled TCH 70.

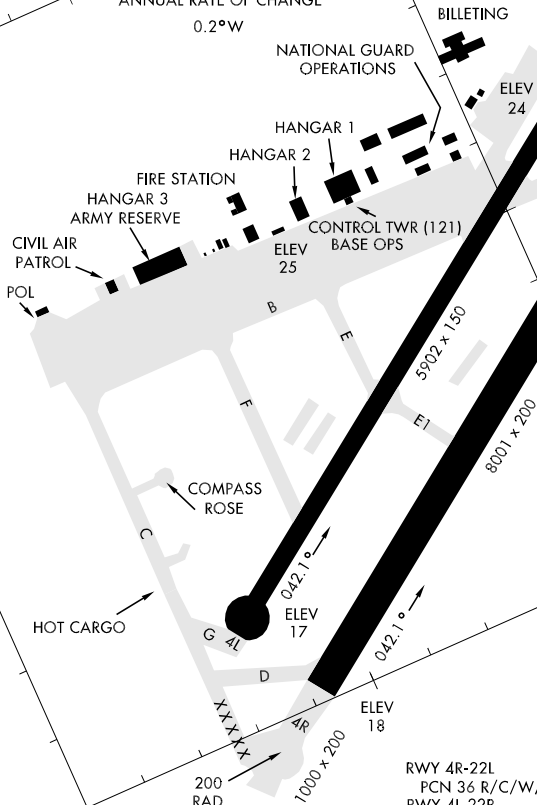
ATIS ★
 118.875 379.975
 LOS ALAMITOS TOWER ★
 123.85 251.15
 GND CON
 126.95 257.95

APRIL 2008
 ANNUAL RATE OF CHANGE
 0.2°W

VAR 12.9°E

33°48'N

FIELD
 ELEV
 32



RWY 4R-22L
 PCN 36 R/C/W/T
 RWY 4L-22R
 PCN 36 F/C/W/T
 CLOSED RWY
 WEIGHT BEARING CAPACITY
 (UNKNOWN)

SW-3, 14 JAN 2010 to 11 FEB 2010

ALBACOR-TWO DEPARTURE (ALBAS 2•ALBAS)

LOS ALAMITOS, CALIFORNIA

ATIS ★
118.875 379.975
GND CON
126.95 257.95
LOS ALAMITOS TOWER
123.85 251.15
SOCAL DEP CON
124.65 316.125

SEAL BEACH
115.7 SLI
Chan 104

SL-953 [USA]

Rwy	Knots	60	120	180	240
22L/R	V/V(fpm)	224	448	672	896

Minimum Climb Rate to 400

LOS ANGELES
113.6 LAX
Chan 83

L-3, L-4, L-7, A-2

① 250

Aprx dist
fr tkof area

ALBAS

EXPECT RADAR VECTORS
FROM DEP CON WITHIN
ONE MINUTE AFTER
TAKE-OFF.

R-2503C

R-2503A

OCEANSIDE
115.3 OCN
Chan 100

L-4

① 1.8 NM from Rwy 22L/R

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 4L/R: Immediate climb to assigned alt. Maintain rwy hdg until passing 400'. Aircraft under VFR conditions maintain rwy hdg until end of rwy approach lights. Turn right hdg 180° for one minute. Thence

TAKE-OFF RWY 22L/R: Immediate climb to assigned altitude. Maintain rwy hdg until passing 400'. Aircraft under VFR conditions maintain rwy hdg until end of rwy. Turn left to hdg 180° for one minute. Thence

.... intercept and proceed via SLI R-171 to ALBAS INT. Cross ALBAS INT at as assigned, then via transition or assigned route.

LOS ANGELES TRANSITION: Via LAX R-123 to LAX (ALBAS 2•LAX).

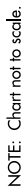
OCEANSIDE TRANSITION: Via direct OCN (ALBAS 2•OCN).

SEAL BEACH TRANSITION: Procedure turn East of course, then inbound via SLI R-171 to SLI. (ALBAS 2•SLI).

ALBACOR-TWO DEPARTURE (ALBAS 2•ALBAS)

LOS ALAMITOS, CALIFORNIA

LONG BEACH, CALIFORNIA



LOM LG 233	APCH CRS 206°	Rwy Idg 8001 TDZE 32 Arpt Elev 32
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AL-953 [USA]

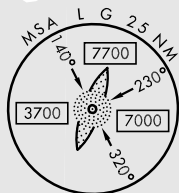
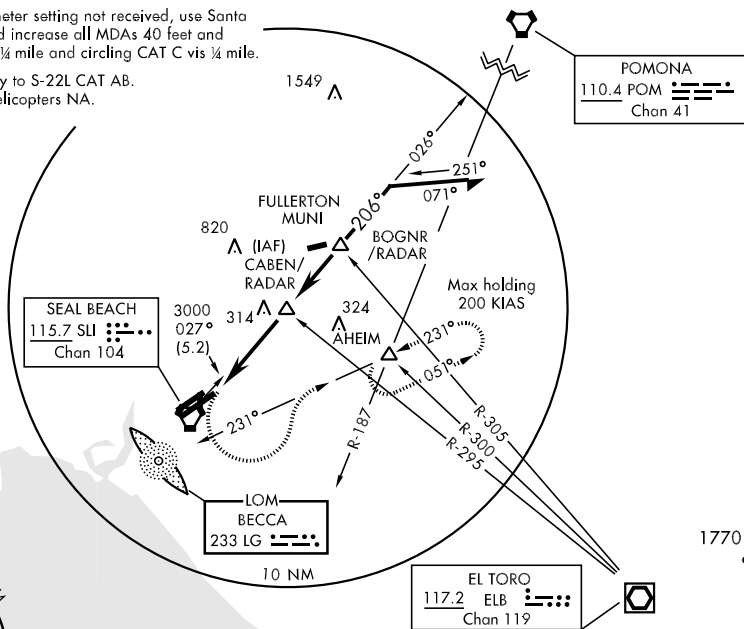
LOS ALAMITOS AAF (KSLI)

▼ * When ALS inop, increase CAT D vis ¼ mile. ** Circling not authorized N of Rwy 14-22R.	SALSF	MISSED APPROACH: Climb to 1800 then climbing left turn to 3000 via BECCA LOM 051° bearing to AHEIM INT and hold.
▲ NA *** When ALS inop, increase CAT CD vis to 1 mile.	A₂	

ATIS ★ 118.875 379.975	SOCAL APP CON 124.65 316.125	LOS ALAMITOS TOWER ★ 123.85 251.15	GND CON 126.95 257.95	PAR
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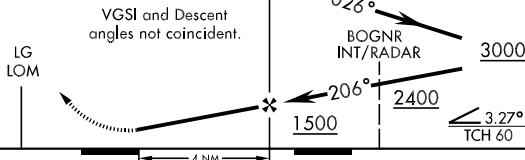
When Los Alamitos altimeter setting not received, use Santa Ana altimeter setting and increase all MDAs 40 feet and S-22L CAT C and D vis $\frac{1}{4}$ mile and circling CAT C vis $\frac{1}{4}$ mile.

Inop table does not apply to S-22L CAT AB.
 Visibility reduction by helicopters NA.



1800 ↑	3000 ↖	LG 233  051° BRG	AHEIM INT 	CABEN INT/RADAR 	Remain within 10 NM
-----------	-----------	---	---	---	------------------------

VGSI and Descent angles not coincident.



CATEGORY	A	B	C	D
S-22L *	620-1	588 (600-1)	620-1 1/4 588 (600-1 1/4)	620-1 1/2 588 (600-1 1/2)
CIRCLING **	620-1	588 (600-1)	620-1 1/2 588 (600-1 1/2)	620-2 588 (600-2)
S-PAR 22L ***	282-3/4 250 (300-3/4) GS 3.0°			

APCH CRS 220°	Rwy Idg 8001 TDZE 32 Arpt Elev 32
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AL-953 [USA]

LOS ALAMITOS AAF (KSLI)



* When ALS inop, increase CAT D vis ¼ mile.

** Circling not authorized N of Rwy 4L-22R.



NA *** When ALS inop, increase CAT CD vis to 1 mile.



† MISSED APPROACH: Climbing left turn to 3200 direct AHEIM and hold.

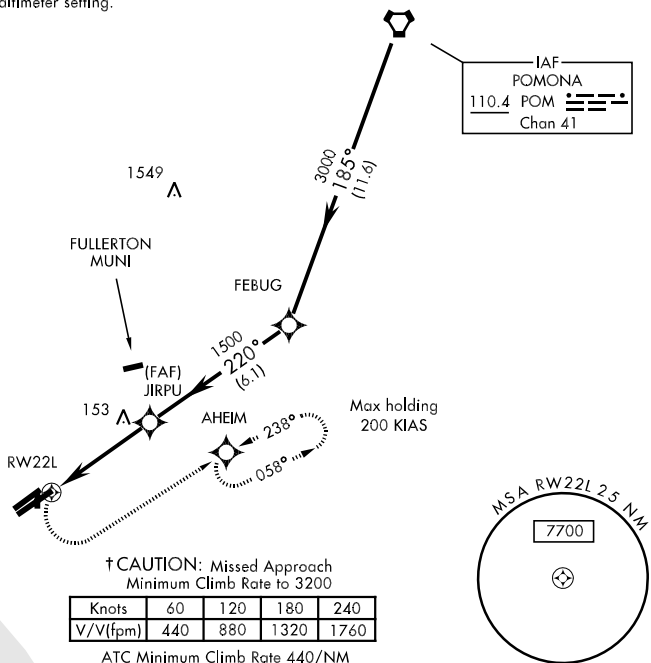
ATIS ★ 118.875 379.975	SOCAL APP CON 124.65 316.125	LOS ALAMITOS TOWER ★ 123.85 251.15	GND CON 126.95 257.95	PAR
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When Los Alamitos altimeter setting not available, use Santa Ana altimeter setting and increase MDAs 40'.

Procedure NA for arrivals at POM VORTAC
on airway radials 164°CW 225°.

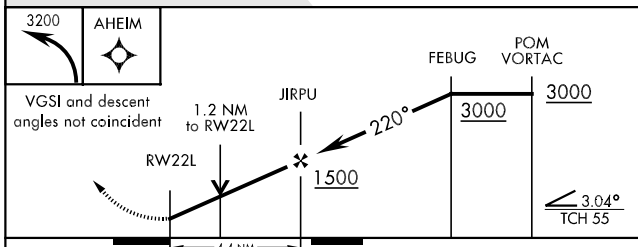
VDP NA when using Santa Ana altimeter setting.

DME/DME RNP 0.3 N/A

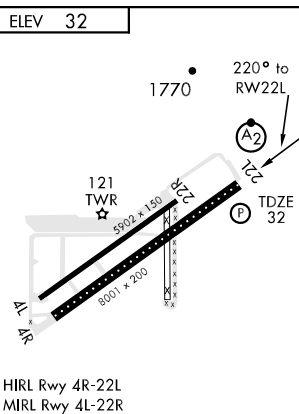


Knots	60	120	180	240
V/V(fpm)	440	880	1320	1760

ATC Minimum Climb Rate 440/NM



CATEGORY	A	B	C	D
LNNAV/MDA*	480- $\frac{3}{4}$ 448 (500- $\frac{3}{4}$)		480-1 448 (500-1)	480-1 $\frac{1}{4}$ 448 (500-1 $\frac{1}{4}$)
CIRCLING **	480-1 448 (500-1)	500-1 468 (500-1)	500-1 $\frac{1}{2}$ 468 (500-1 $\frac{1}{2}$)	600-2 568 (600-2)
S-PAR 22L***	282- $\frac{3}{4}$ 250 (300- $\frac{3}{4}$) GS 3.0°			



VORTAC SLI 115.7 Chan 104	APCH CRS 214°	Rwy Idg 8001 TDZE 32 Arpt Elev 32
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AL-953 [USA]

LOS ALAMITOS AAF (KSLI)

T * When ALS inop, increase vis CAT D ¼ mile.
 ** When ALS inop, increase CAT CD vis to 1 mile.
 *** Circling not authorized N of Rwy 4L-22R.

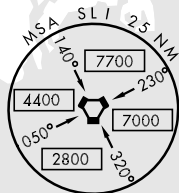
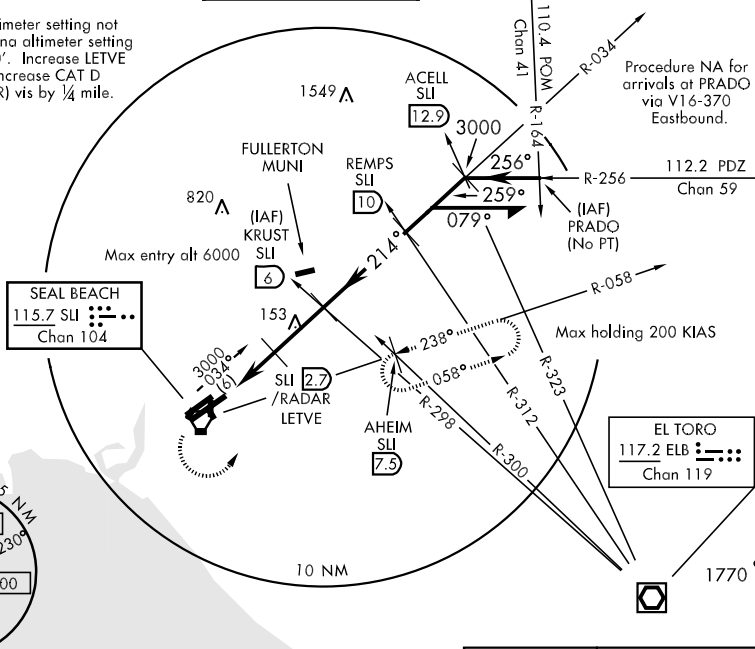
SALSF

MISSED APPROACH: Climb to 1800, then climbing left turn to 3000 via SLI VORTAC R-058 to AHEIM INT and hold.

ATIS ★ 118.875 379.975	SOCAL APP CON 124.65 316.125	LOS ALAMITOS TOWER ★ 123.85 251.15	GND CON 126.95 257.95	PAR
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When Los Alamitos altimeter setting not available, use Santa Ana altimeter setting and increase MDAs 40'. Increase LETVE fix minimum by 40'. Increase CAT D (S-22L, DME or RADAR) vis by 1/4 mile.



1800 3000
SLI R-058 AHEIM

VGSI and descent angles not coincident.

At or above 620 when using Santa Ana Altimeter setting.

VORTAC OYAVE 1.7 /RADAR LETVE 2.7 /RADAR

KRUST 6000 SLI 6

034°

214°

3000

2700

1700

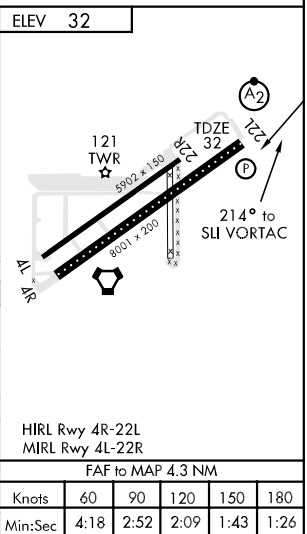
580' 1700'

ELB R-298 REMPS SLI 10 ELB R-312

Remain within 10 NM

3.11° TCH 55

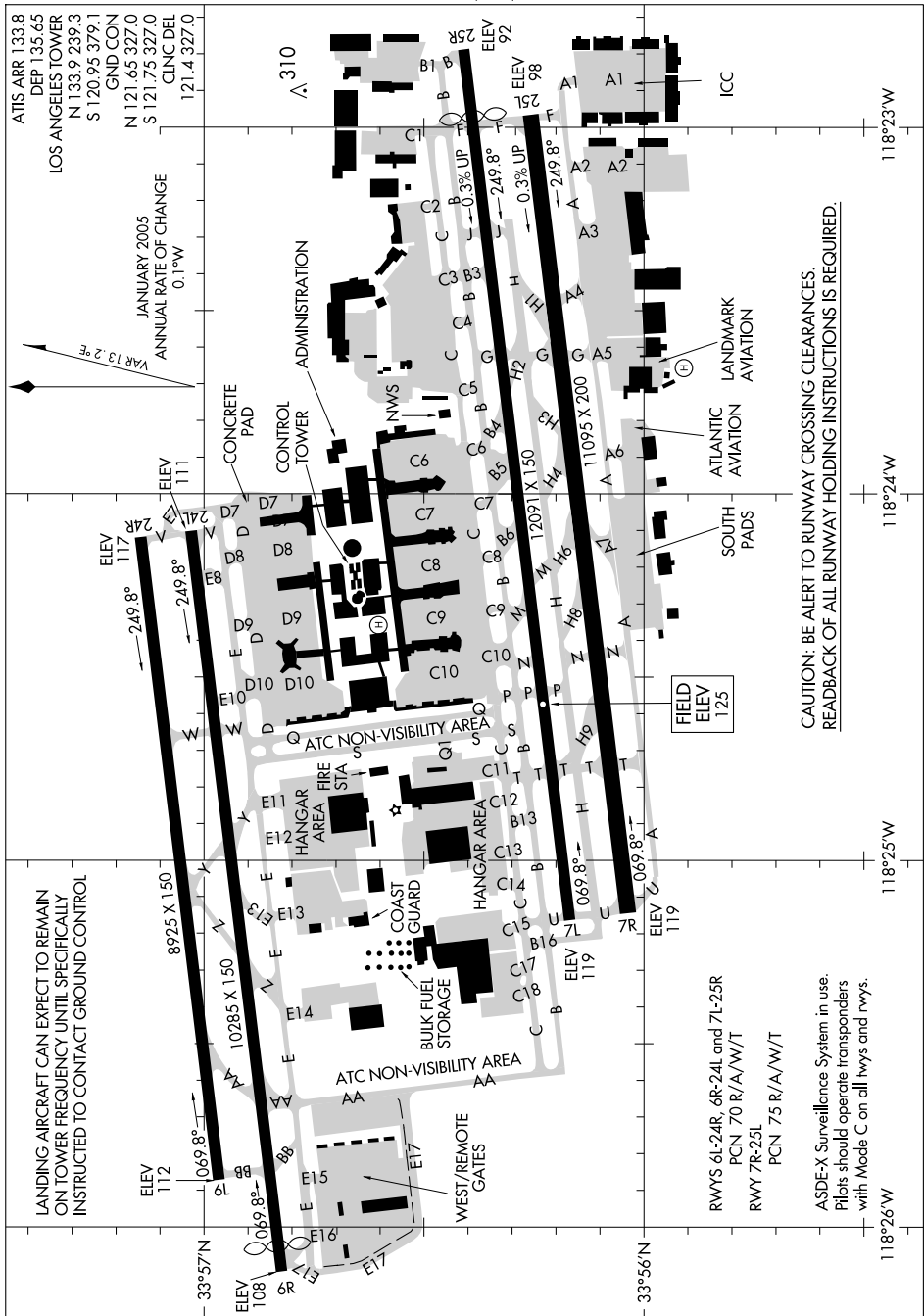
CATEGORY	A	B	C	D
S-22L	580- $\frac{3}{4}$ 548 (600- $\frac{3}{4}$)		580-1 $\frac{1}{4}$ 548 (600-1 $\frac{1}{4}$)	580-1 $\frac{1}{2}$ 548 (600-1 $\frac{1}{2}$)
CIRCLING ***	580-1 548 (600-1)		580-1 $\frac{1}{2}$ 548 (600-1 $\frac{1}{2}$)	600-2 568 (600-2)
DME or RADAR				
S-22L *	440- $\frac{3}{4}$ 408 (500- $\frac{3}{4}$)		440-1 408 (500-1)	440-1 $\frac{1}{4}$ 408 (500-1 $\frac{1}{4}$)
CIRCLING ***	440-1 408 (500-1)	500-1 468 (500-1)	500-1 $\frac{1}{2}$ 468 (500-1 $\frac{1}{2}$)	600-2 568 (600-2)
S-PAR 22L **	282- $\frac{3}{4}$ 250 (300- $\frac{3}{4}$) GS 3.0°			



AIRPORT DIAGRAM

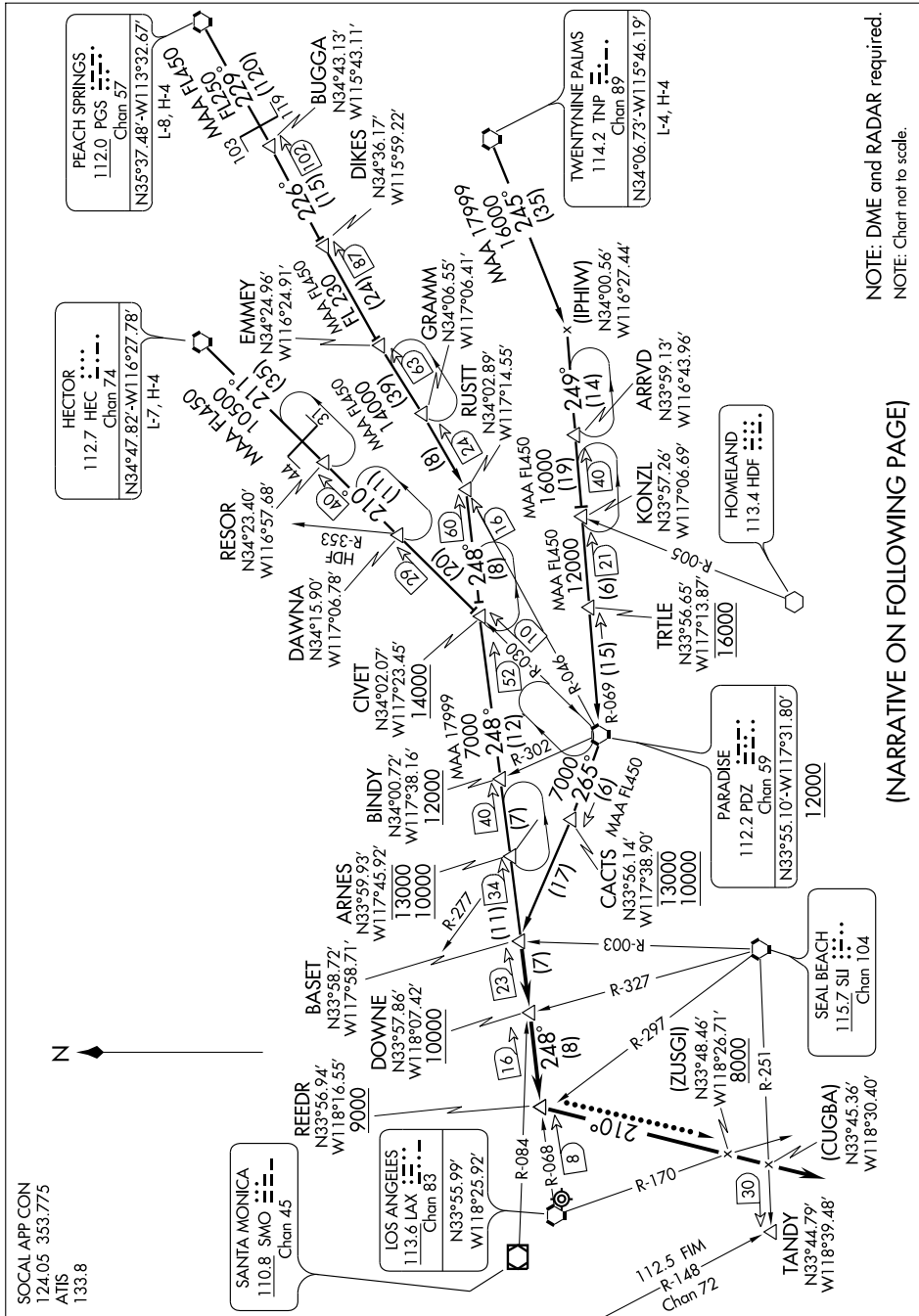
AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-3: 14 JAN 2010 to 11 FEB 2010



NOTE: DME and RADAR required.

(NARRATIVE ON FOLLOWING PAGE)

SW-3. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

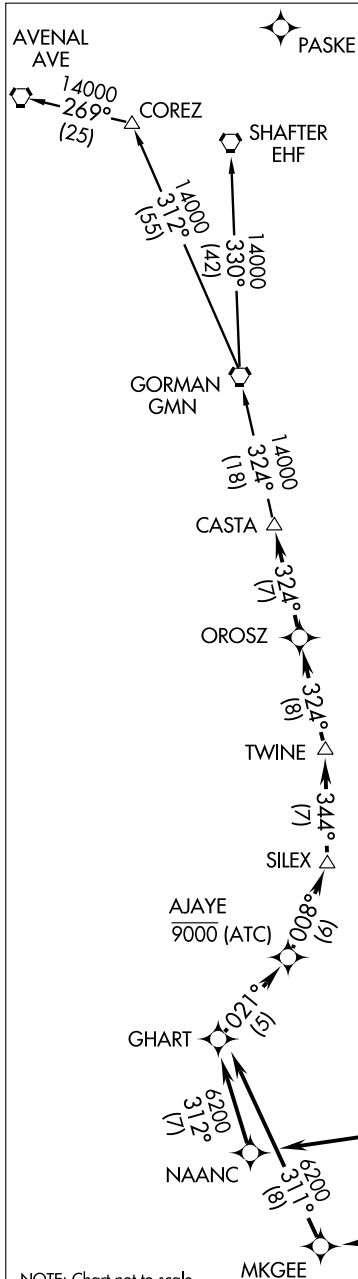
HECTOR TRANSITION (HEC.BASET3): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then via LAX R-068 to BASET INT. Thence....

PEACH SPRINGS TRANSITION (PGS.BASET3): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then via LAX R-068 to BASET INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.BASET3): From over TNP VORTAC via TNP R-245 and PDZ R-069 to PDZ VORTAC, then via PDZ R-265 to BASET INT. Thence....

.... From over BASET INT/DME via LAX R-068 to cross DOWNE INT/DME at or above 10,000' and cross REEDR INT/DME at or above 9,000'. Depart REEDR via heading 210° for radar vectors to final approach course for Runways 6L/R or 7L/R.

LOST COMMUNICATIONS: Depart REEDR heading 210° to intercept the SLI R-251 to TANDY INT/SLI 30 DME.



TAKE-OFF MINIMUMS

Rwys 6L, 6R, 7L, 7R, NA - ATC.

Rwys 24L, 24R, 25L, 25R, Standard
with a minimum climb of 500' per NM
to 1800. ATC climb of 350' per NM
to 6200.

ATIS DEP 135.65
CLNC DEL
121.4 327.0
GND CON
N 121.65 327.0
S 121.75 327.0
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

NOTE: DME/DME/IRU, or GPS required.

NOTE: RNAV 1

NOTE: Restricted to turbojet aircraft only.

NOTE: RADAR required.

NOTE: Some departures may be RADAR vectored to
AJAYE, SILEX, TWINE or OROSZ.NOTE: Maintain at or below 250 knots unless otherwise
directed by ATC.NOTE: Use the VENTURA DEPARTURE during the time periods
of 2100-0700 local in lieu of the CASTA DEPARTURE.NOTE: For non-GPS equipped aircraft: PMD DME must be
operational for SHAFER TRANSITION, and EHF DME
must be operational for AVENAL TRANSITION.

TAKE-OFF OBSTACLE NOTES

Rwy 24L: Bush 957' from DER, 600' left of centerline, 29' AGL/148' MSL.

Multiple light poles beginning 274' from DER, 425' left of
centerline, up to 12' AGL/120' MSL.

Antenna on pole 1358' from DER, 287' right of centerline,
25' AGL/144' MSL.

Bush 240' from DER, 508' right of centerline, 10' AGL/116' MSL.

Light pole 296' from DER, 322' right of centerline,
8' AGL/116' MSL.

Rwy 24R: Obstruction light on glideslope 213' from DER, 400' left of
centerline, 34' AGL/151' MSL.

Rwy 25L: Bush 134' from DER, 397' left of centerline, 5' AGL/123' MSL.

Tree 2379' from DER, 777' left of centerline, 79' AGL/197' MSL.

Pole 2367' from DER, 764' left of centerline, 55' AGL/184' MSL.

Transmission line tower 2800' from DER, 992' left of centerline,
82' AGL/192' MSL.

Transmission tower 2856' from DER, 926' left of centerline,
82' AGL/192' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000/1300, then via track 251° to cross ENNEY at or below 5000/1300, then via depicted route to CASTA, thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000/1300, then via track 254° to cross ENNEY at or below 5000/1300, then via depicted route to CASTA, thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000/1300, then via track 250° to cross EVOSE at or below 5000/1300, then via depicted route to CASTA, thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000/1300, then via track 254° to cross EVOSE at or below 5000/1300, then via depicted route to CASTA, thence....

....via transition. Expect further clearance to filed altitude three minutes after departure.

AVENAL TRANSITION (CASTA2.AVE)

GORMAN TRANSITION (CASTA2.GMN)

SHAFTER TRANSITION (CASTA2.EHF)

ATIS DEP 135.65

CLNC DEL

121.4 327.0

GND CON

N 121.65 327.0

S 121.75 327.0

LOS ANGELES TOWER

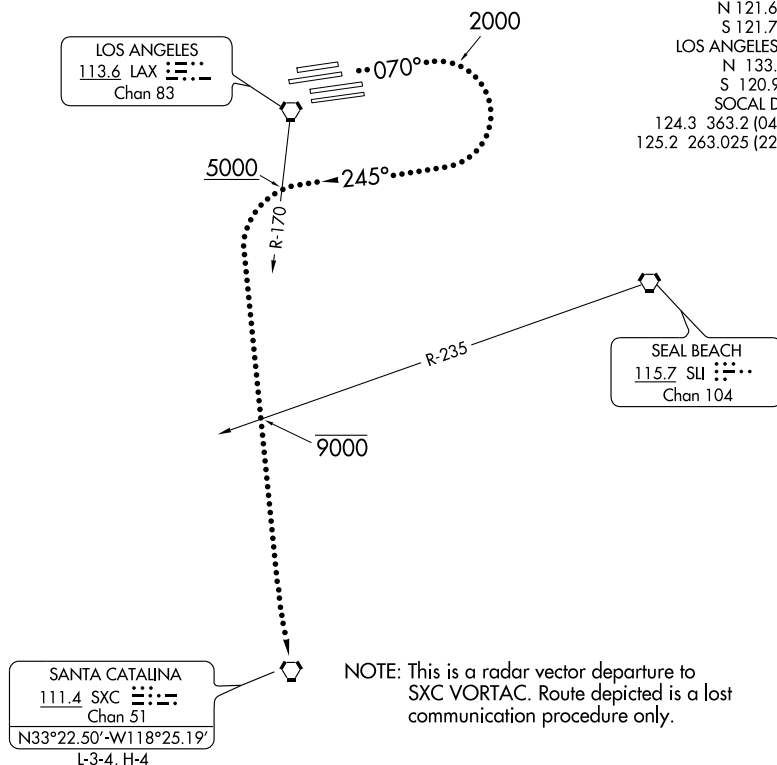
N 133.9 239.3

S 120.95 379.1

SOCAL DEP CON

124.3 363.2 (045°-224°)

125.2 263.025 (225°-044°)



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6/7: Climb via heading 070° for vector to SXC VORTAC. Then via (assigned route). All aircraft expect further clearance to filed altitude three minutes after departure.

LOST COMMUNICATIONS

Take-off Runways 6/7: If not in contact with Departure Control after reaching 2000', turn right heading 245°. Cross LAX R-170 at or above 5000', then turn left proceed direct SXC VORTAC. Cross SLI R-235 at or below 9000'.

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS DEP	135.65
CINCL DEL	
121.4	327.0
GND CON	
N 121.65	327.0
S 121.75	327.0
LOS ANGELES TOWER	
N 133.9	239.3
S 120.95	379.1
SOCAL DEP CON	
124.3	363.2 (045°-224°)
25.2	263.025 (225°-044°)

GORMAN
 116.1 GMN 
 Chan 108
 °48.24'-W118°
 L-3-4-7, H-4

Z

FILLMORE
112.5 FM
Chan 72

HENER
N34°19.86
W119°13.4

DEANO
N34°19.00'
W119°24.99'

SAN MARCUS
114.9 RZS :--::
Chan 96

GVO Chan 85

VAN NUYS
113.1 VNY ::--
Chan 78

113.6 LAX
Chan 83

VENTURA
108.2 VTU
Chen 19

NOTE: DME required.

NOTE: Runway 6L/R take-off minimums 400/2 or standard with a minimum climb of 330 feet per NM to 1500 feet.

NOTE: Procedure for non turbojet aircraft only.

NOTE: Expect clearance to filed altitude 3 minutes after departure.

NOTE: Chart not to scale.

(Continued on next page)

SW-3. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R: Climb via heading 040° for vector to V23; thence via (transition) or (assigned route).

TAKE-OFF RUNWAYS 7L/R: Climb via heading 070° for vector to V23; thence via (transition) or (assigned route).

LOST COMMUNICATIONS

RUNWAYS 6L/R and 7L/R: If no transmissions are received upon reaching the LAX 7 DME, turn left heading 270°, intercept V23 to CHATY INT and resume the CHATY TWO DEPARTURE. Continue climb on course.

GORMAN TRANSITION (CHATY2.GMN): From over CHATY INT via V23 to GMN VORTAC. Cross CHATY INT at or above 5400', and CASTA INT at or above 8300'.

HENER TRANSITION (CHATY2.HENER): From over CHATY INT via V23 and FIM R-097 to FIM VORTAC. Cross CHATY INT at or above 5400'. Then proceed via FIM R-250 to HENER INT.

KWANG TRANSITION (CHATY2.KWANG): From over CHATY INT via V23 and FIM R-097 to FIM VORTAC. Cross CHATY INT at or above 5400'. Then proceed via FIM R-250 to KWANG INT.

SAN MARCUS TRANSITION (CHATY2.RZS): From over CHATY INT via V23 and FIM R-097 to FIM VORTAC. Cross CHATY INT at or above 5400'. Then proceed via FIM R-250 and RZS R-109 to RZS VORTAC.

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.CIVET5): From over HEC VORTAC via HEC R-203 and PDZ R-046 to RUSTT DME, then via LAX R-068 to CIVET DME. Thence....

PEACH SPRINGS TRANSITION (PGS.CIVET5): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT DME, then via LAX R-068 to CIVET DME. Thence....

Landing Rwy 25L: From over CIVET, via LAX R-068 to FUELR.
Expect ILS RWY 25L approach.

Landing Rwy 25R: From over CIVET, via LAX R-068 to DYMMO, then via heading 255° and the I-CFN localizer course to MUSIK. Expect ILS RWY 25R approach.

Landing Rwy 24L: From over CIVET via heading 259° and the I-HQB localizer course to ROWLA, thence as depicted to HURLR. Expect ILS RWY 24L approach.

Landing Rwy 24R: From over CIVET via heading 260° and the I-OSS localizer course to CAMDI, thence as depicted to PALAC. Expect ILS RWY 24R approach.

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.DOWNE4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then LAX R-068 to DOWNE INT. Thence....

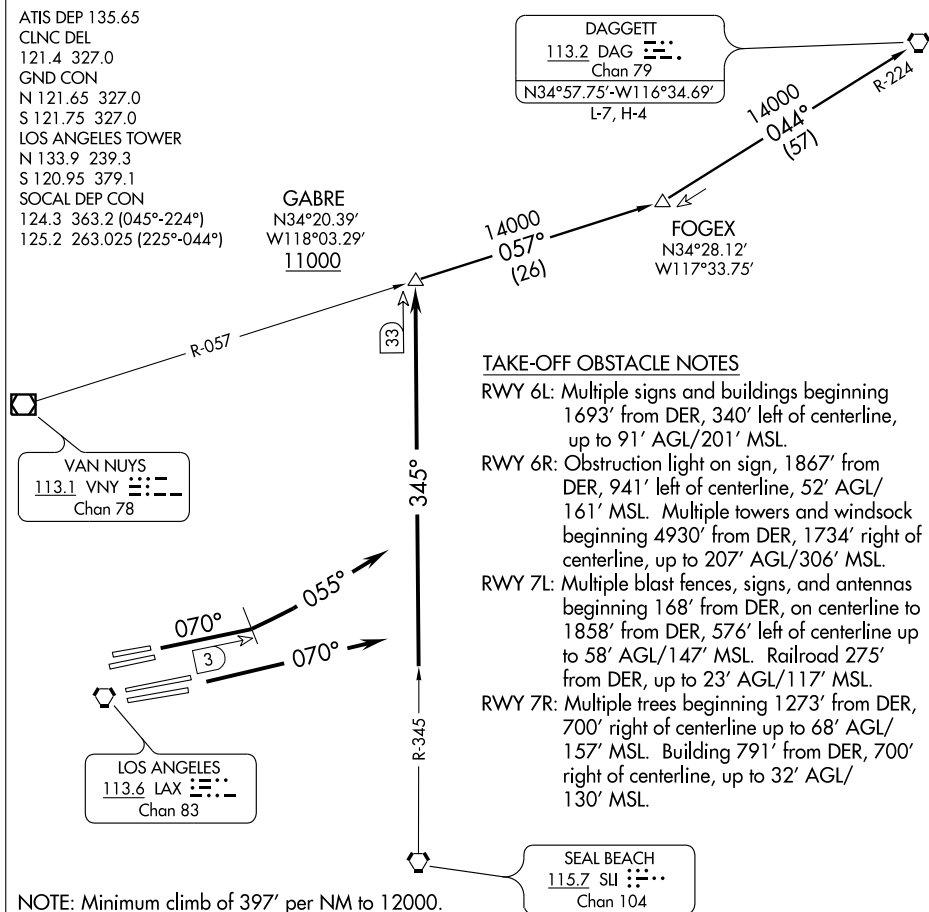
PEACH SPRINGS TRANSITION (PGS.DOWNE4): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then LAX R-068 to DOWNE INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.DOWNE4): From over TNP VORTAC via TNP R-254 to PIONE DME, then LAX R-068 to DOWNE INT. Thence....

....From DOWNE INT via SMO R-085 to SMO VOR/DME, then via SMO R-259 to WAKER INT, expect vector to final approach course for runways 6 and 7.

GABRE SIX DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6L/R: Climb heading 070° until the LAX VORTAC 3 DME, then turn left heading 055° for vector to SLI R-345. Thence....

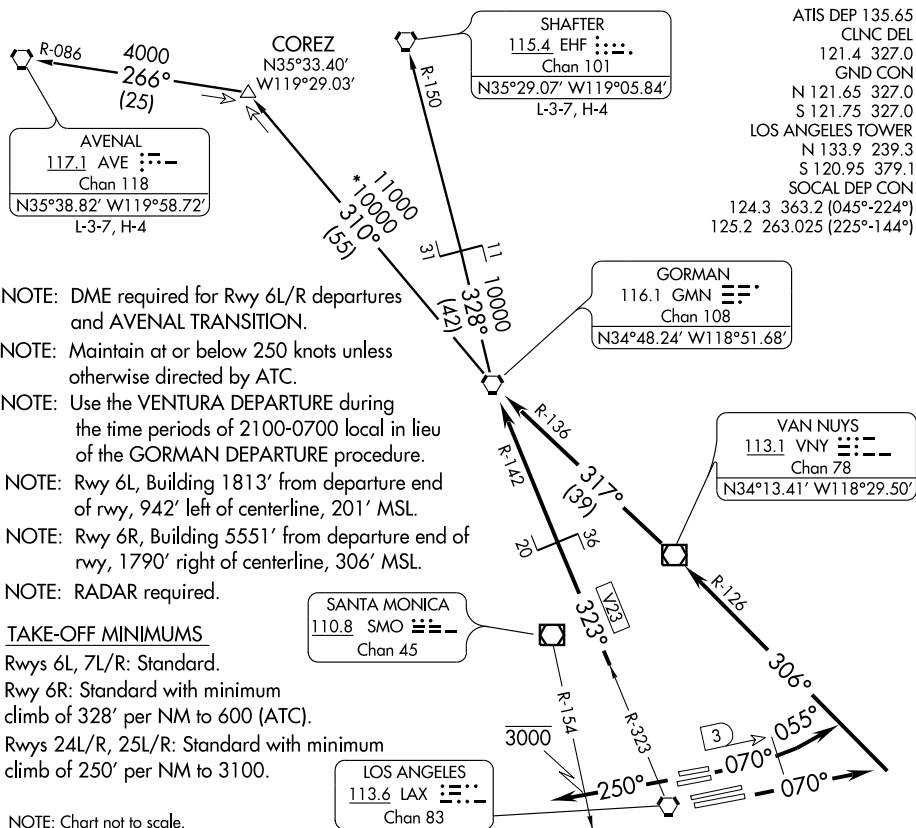
TAKE-OFF RUNWAY 7L/R: Climb heading 070° for vector to SLI R-345. Thence....

....via SLI R-345 to GABRE INT. Then via (transition) or (assigned route).

DAGGETT TRANSITION (GABRE6.DAG): From over GABRE INT via VNY R-057 and DAG R-224 to DAG VORTAC.

GORMAN FOUR DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R: Climb via heading 070° until LAX VORTAC 3 DME, then turn left heading 055° for vector to join VNY R-126 to VNY VOR/DME, then via VNY R-317 and GMN R-136 to GMN VORTAC. Thence....

TAKE-OFF RUNWAYS 7L/R: Climb via heading 070° for vector to join VNY R-126 to VNY VOR/DME, then via VNY R-317 and GMN R-136 to GMN VORTAC. Thence....

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000, then via radar vectors to proceed via LAX R-323 and GMN R-142 to GMN VORTAC. Thence....

....via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

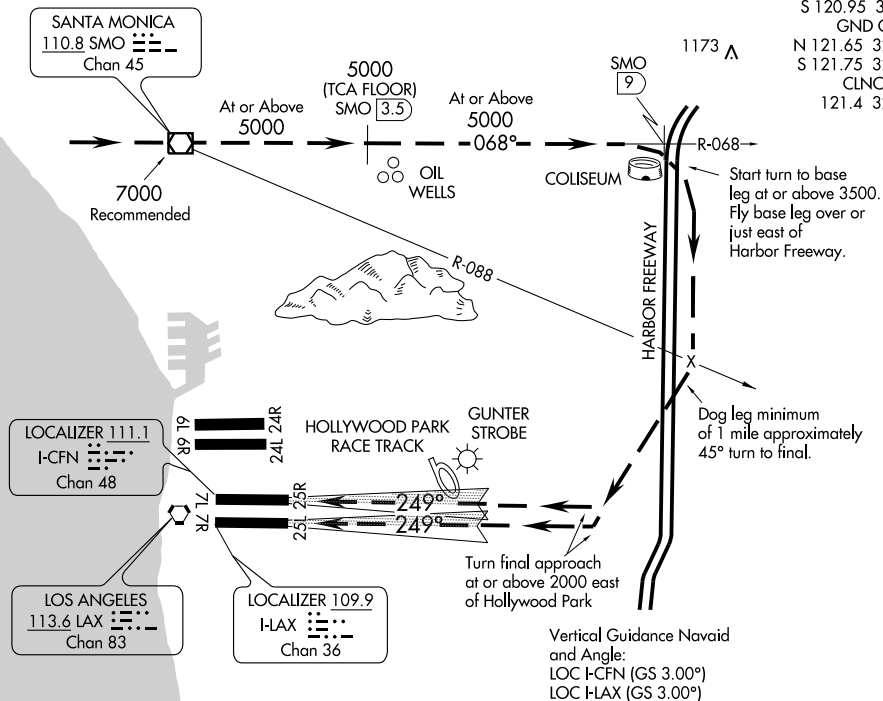
AVENAL TRANSITION (GMN4.AVE): From over GMN VORTAC via GMN R-310 and AVE R-086 to AVE VORTAC.

SHAFER TRANSITION (GMN4.EH): From over GMN VORTAC via GMN R-328 and EH R-150 to EH VORTAC.

HARBOR VISUAL RWY 25L/R

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS ARR 133.8
DEP 135.65
SOCAL APP CON
124.5 235.975
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
GND CON
N 121.65 327.0
S 121.75 327.0
CLNC DEL
121.4 327.0



RADAR REQUIRED

Weather minimums: 3000 feet ceiling and 3 miles visibility.

CHART NOT TO SCALE

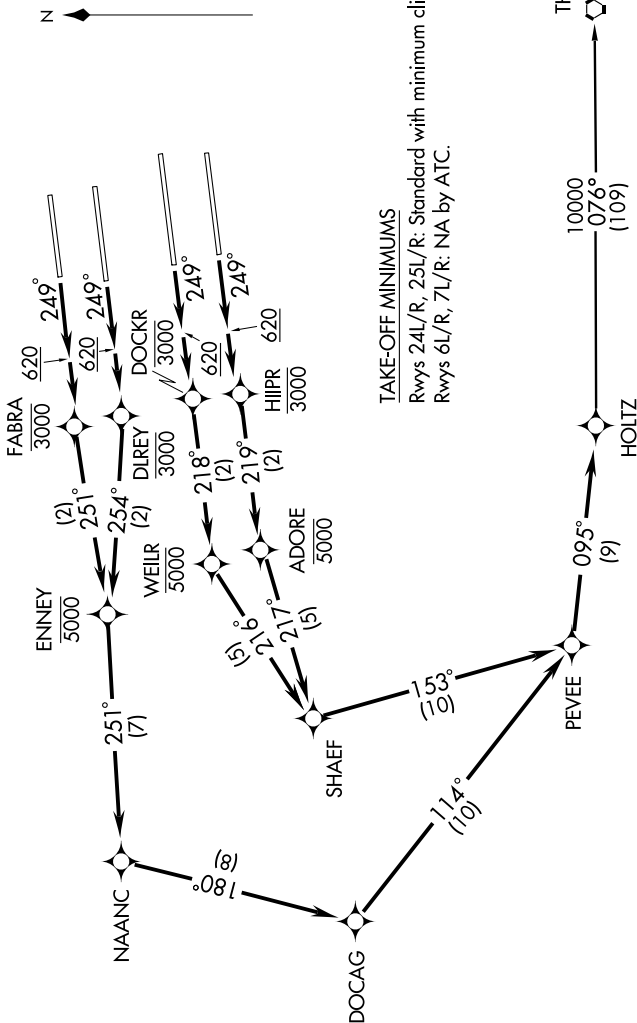
HARBOR VISUAL APPROACH

When visual approaches to Runways 25L/R are in progress, clearances to aircraft from the north and northwest will be given utilizing the following phraseology:

"(IDENT) CLEARED FOR HARBOR VISUAL RUNWAY 25 LEFT/RIGHT APPROACH."

A descent profile of approximately 3° starting at 7000 over SMO VOR/DME may be made with reference to the minimum altitudes above.

ATIS 135.65
 CLNC DEL
 121.4 327.0
 GND CON
 N 121.65 327.0
 S 121.75 327.0
 LOS ANGELES TOWER
 N 133.9 239.3
 S 120.95 379.1
 SOCIAL DEP CON
 124.3 363.2 (045°-224°)
 125.2 263.025 (225°-044°)



TAKE-OFF OBSTACLE NOTES

Rwy 24L: Bush 957' from DER, 601' left of centerline, 29' AGI/148' MSL.
 Light pole 273' from DER, 547' left of centerline, 12' AGI/120' MSL.
 Light pole 301' from DER, 425' left of centerline, 10' AGI/118' MSL.
 Antenna on pole 1358' from DER, 287' right of centerline 25' AGI/144' MSL.
 Bush 240' feet from DER, 508' right of centerline, 10' AGI/116' MSL.
 Light pole 296' from DER, 321' right of centerline, 8' AGI/116' MSL.
 Rwy 24R: OL on glideslope 213' from DER, 400' left of centerline, 34' AGI/151' MSL.
 Rwy 25L: Pole 2366' from DER, 765' left of centerline, 55' AGI/184' MSL.
 T-L tower 2800' from DER, 993' left of centerline, 82' AGI/192' MSL.
 Transmission tower 2856' from DER, 927' left of centerline, 82' AGI/192' MSL.
 Tree 2379' from DER, 778' left of centerline, 79' AGI/197' MSL.
 Bush 134' from DER, 397' left of centerline, 5' AGI/123' MSL.

NOTE: 1. DME/DME/IRU or GPS Required.

2. RNAV 1.

NOTE: For non-GPS equipped aircraft departing Rwy 25R or 25L, SL must be operational.

NOTE: Rwys 24L, 24R departures expect radar vector to PEVEE prior to NAANC.

NOTE: RADAR Required.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000, then via 251° track to cross ENNEY at or below 5000, then via depicted route to HOLTZ, Thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000, then via 254° track to cross ENNEY at or below 5000, then via depicted route to HOLTZ, Thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000, then via 218° track to cross WEILR at or below 5000, then via depicted route to HOLTZ, Thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000, then via 219° track to cross ADORE at or below 5000, then via depicted route to HOLTZ, Thence....

..... via THERMAL TRANSITION. Expect further clearance to filed altitude three minutes after departure.

THERMAL TRANSITION (HOLTZ9.TRM)

LOC/DME I-UWU	APP CRS	Rwy Idg 6L	8925	Rwy Idg 6R	9954
108.5	069°	TDZE	117	TDZE	114
Chan 22		Apt Elev	126	Apt Elev	126

ILS or LOC RWY 6L

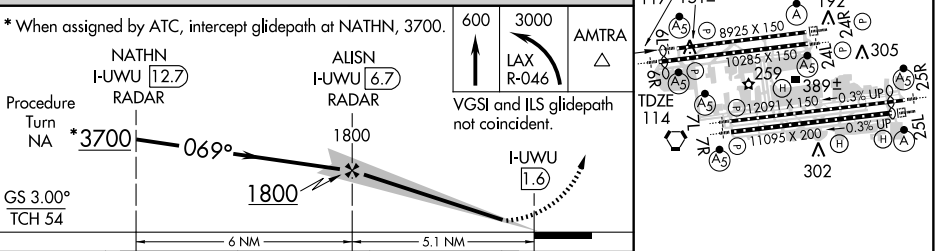
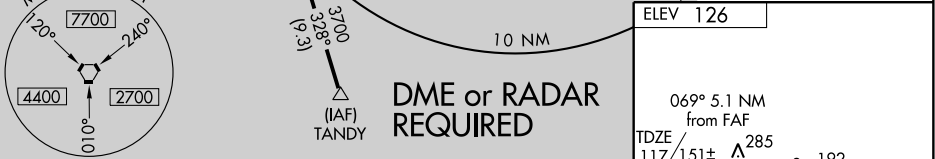
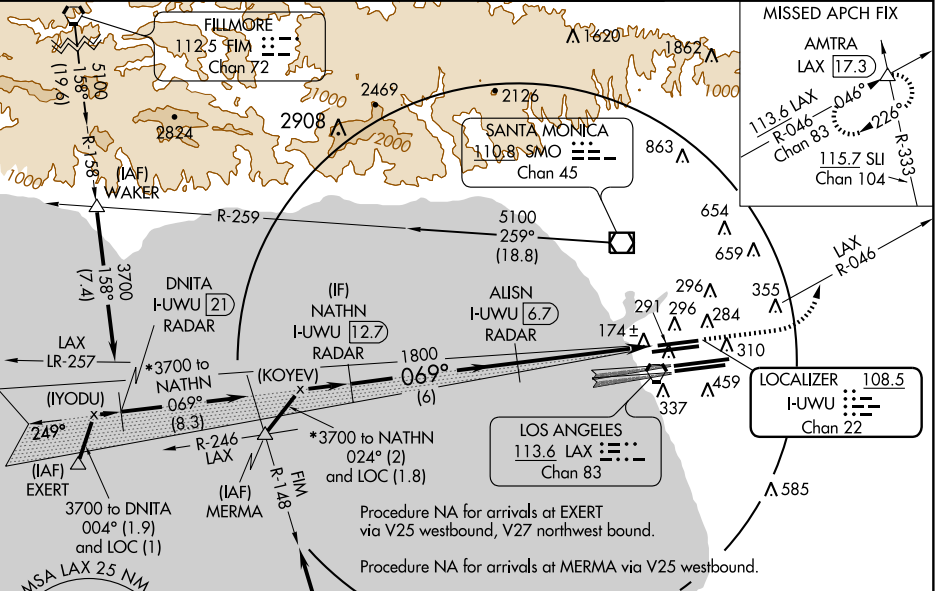
LOS ANGELES INTL (LAX)

Simultaneous approach authorized with Rwy 7L/R.
LOC procedure NA during simultaneous operations.
Inoperative table does not apply to S-ILS 6L and S-LOC 6L all Cats, Sidestep 6R Cats A/B.
For inoperative MALSR, increase Sidestep 6R Cat C visibility to 1½ mile and Cat D to 2 miles. Visibility reduction by helicopters NA.

MALSR
Rwys
6L and 6R

MISSED APPROACH: Climb to 600 then climbing left turn to 3000 via LAX VORTAC R-046 to AMTRA INT/LAX 17.3 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



CATEGORY	A	B	C	D	TDZ/CL Rwys 6R, 7L, 24R, and 25L
S-ILS 6L		367/50	250 (300-1)		HIRL all Rwys
S-LOC 6L		440/50	323 (400-1)		
SIDESTEP RWY 6R		440/60	326 (400-1½)	440-1¾ 326 (400-1¾)	FAF to MAP 5.1 NM
					Knots 60 90 120 150 180
					Min:Sec 5:06 3:24 2:33 2:02 1:42

ILS or LOC RWY 7L
LOS ANGELES INTL (LAX)

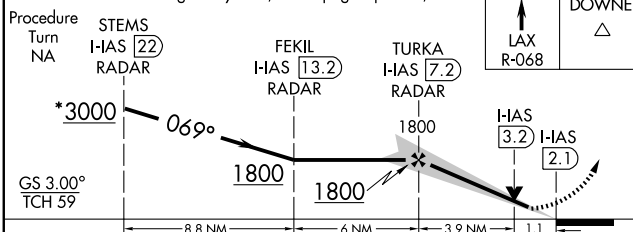
MISSED APPROACH: Climb to 3000 via LAX VORTAC R-068 to DOWNE INT/ LAX 15.5 DME/RADAR and hold.

[illegible]

SW-3. 14 JAN 2010 to 11 FEB 2010

Procedure NA for arrivals at EXERT via V25 westbound,
V27 northwest bound.
Procedure NA for arrivals at MERMA via V25 westbound.

* When assigned by ATC, intercept glidepath at, 3000.



LOC/DME I-MKZ	APP CRS	Rwy Idg 7R	11095	Rwy Idg 7L	12091
109.9	069°	TDZE	125	TDZE	126
Chan 36		Apt Elev	126	Apt Elev	126

ILS or LOC RWY 7R

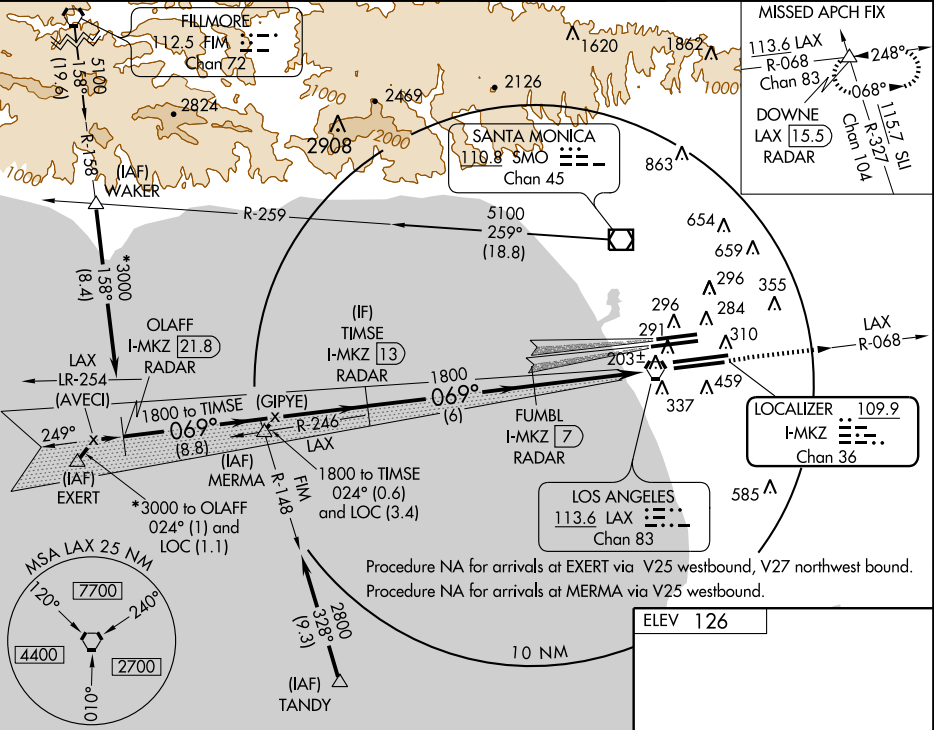
LOS ANGELES INTL (LAX)

▼ For inoperative MALSR, increase S-LOC 7R Cat. D visibility to RVR 5000. Inoperative table does not apply to Sidestep Rwy 7L Cat. A/B. Simultaneous approach authorized with Rwy 6L/R. LOC procedure NA during simultaneous operations. DME or RADAR required. Autopilot coupled approach NA below 264.

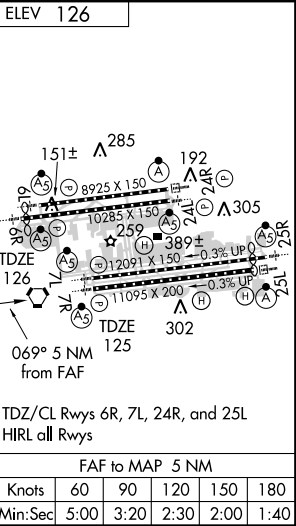
MALSR Rws 7R and 7L

MISSED APPROACH: Climb to 3000 via LAX VORTAC R-068 to DOWNE INT/LAX 15.5 DME/RADAR and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER		GND CON		CLNC DEL	
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3		N 121.65 327.0			
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1		S 121.75 327.0		121.4 327.0	
	(225°-044°)		(045°-089°)						



* When assigned by ATC, intercept glidepath at, 3000. VGSi and ILS glidepath not coincident.				
Procedure Turn NA	OIAFF I-MKZ [21.8] RADAR	TIMSE I-MKZ [13] RADAR	FUMBL I-MKZ [7] RADAR	I-MKZ [2.8] RADAR
GS 3.00° TCH 59	069°			
	8.8 NM	6 NM	4.2 NM	0.8 NM
CATEGORY	A	B	C	D
S-ILS 7R	325/24 200 (200-½)			
S-LOC 7R	460/24 335 (400-½)			460/40 335 (400-¾)
SIDESTEP RWY 7L	520/50 395 (400-1)			520-1½ 395 (400-1½)



SW-3. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-HQB	APP CRS	Rwy Idg 24L	Rwy Idg 24R
111.7	249°	10285	8925
Chan 54		TDZE 121	TDZE 120
		Apt Elev 126	Apt Elev 126

ILS or LOC RWY 24L

LOS ANGELES INTL (LAX)

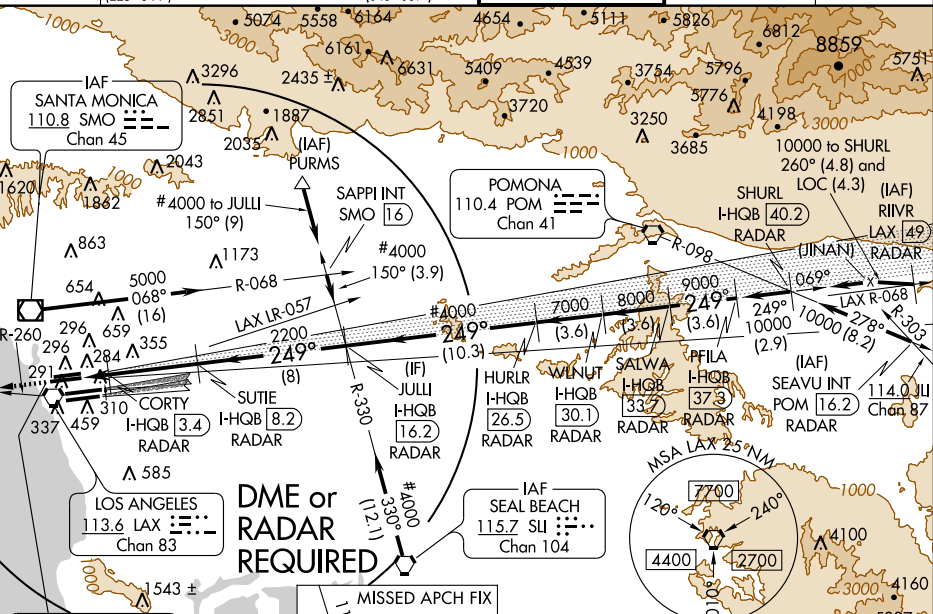
Simultaneous approach authorized with Rwy 25L/R.
LOC procedure NA during simultaneous operations.
Inoperative table does not apply to Sidestep Rwy 24R Cats. A/B.

MALSR Rwy 24L

ALSIF-2 Rwy 24R

MISSED APPROACH: Climb to 2000 via heading 249° and LAX VORTAC R-260 to RAFFS INT/LAX 15.1 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	N 133.9 239.3	GND CON	N 121.65 327.0	CLNC DEL	121.4 327.0
ARR 133.8	(APCH FM WEST)		(090°-224°)	S 120.95 379.1		S 121.75 327.0			
DEP 135.65	(225°-044°)		(045°-089°)						

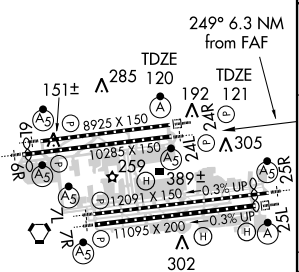


LOCALIZER **111.7**

I-HQB

Chan **54**

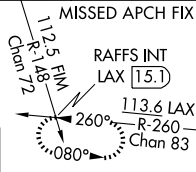
ELEV **126**



TDZ/CL Rwy 6R, 7L, 24R, and 25L

HIRL all Rwy

FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06



Procedure NA for arrivals at PURMS via V186 northwest bound.

Procedure NA for arrival on SLI VORTAC airway radials 272 CW 319.

Procedure NA for arrivals at SMO VOR/DME via V107 westbound.

2000		LAX R-260	RAFFS INT LAX 15.1	# When assigned by ATC, intercept glidepath at 4000. VGSI and ILS glidepath not coincident.		SUTIE I-HQB 8.2	JULI I-HQB 16.2	HURLR I-HQB 26.5	WNUT I-HQB 30.1	SALWA I-HQB 33.7	PFLA I-HQB 37.3
249°		113.6	15.1	* LOC only		CORTY I-HQB 3.4	JULI I-HQB 16.2	HURLR I-HQB 26.5	WNUT I-HQB 30.1	SALWA I-HQB 33.7	PFLA I-HQB 37.3
1.9		1.9	1.9	1 NM		0.5	4.8 NM	8 NM	10.3 NM	3.6 NM	3.6 NM
CATEGORY		A		B		C		D			
S-ILS 24L				321/24		200 (200-1/2)					
S-LOC 24L				500/24		379 (400-1/2)		500/40		379 (400-3/4)	
SIDESTEP RWY 24R				580/50		460 (500-1)		580-1 1/2		460 (500-1 1/2)	

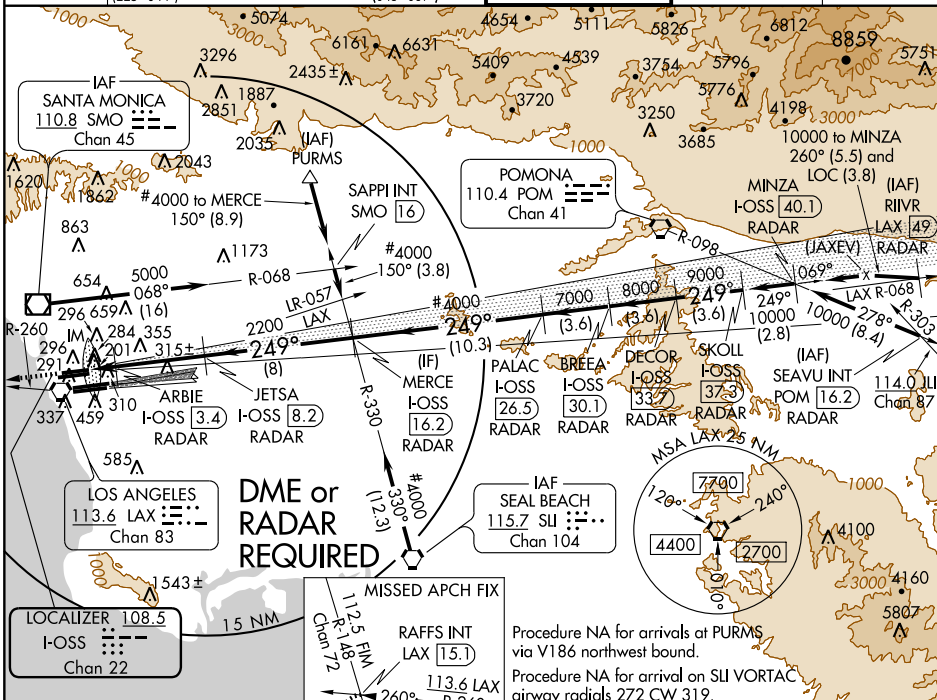
LOC/DME I-OSS 108.5 Chan 22	APP CRS 249°	Rwy Idg 24R 8925 TDZE 120 Apt Elev 126	Rwy Idg 24L 10285 TDZE 121 Apt Elev 126
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ILS or LOC RWY 24R
LOS ANGELES INTL (LAX)

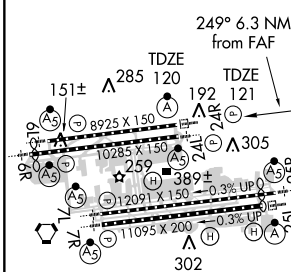
▼ Inoperative table does not apply to Sidestep Rwy 24L Cats A/B. For inoperative MALSR, increase S-LOC Rwy 24R Cat D visibility to RVR 5000. LOC procedure NA during simultaneous operation. Simultaneous approach authorized with Rwy 25L/R.

ALSF-2 Rwy 24R 	MALSR Rwy 24L 	MISSED APPROACH: Climb to 2000 via heading 249° and LAX R-260 to RAFFS INT/LAX 15.1 DME and hold.
--	---	--

ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR	133.8			N 133.9 239.3	N 121.65 327.0	
DEP	135.65	124.5 235.975 (225°-044°)	128.5 360.7 (045°-089°)	S 120.95 379.1	S 121.75 327.0	121.4 327.0



ELEV 126		Procedure NA for arrivals at SMO VOR/DME via V107 westbound.
----------	---	---



TDZ/CL Rwy's 6R, 7L, 24R, and 25L HRL all Rwy's	CATEGORY		A	B	C	D
	S-ILS 24R		320/18 200 (200-½)			
	S-LOC 24R		460/24	340 (400-½)		460/40 340 (400-¾)
	FAF to MAP 6.3 NM					
Knots	60	90	120	150	180	
Min:Sec	6:18	4:12	3:09	2:31	2:06	
	SIDESTEP RWY 24L		580/50	459 (500-1)		580-1½ 459 (500-1½)

LOC/DME I-LAX	APP CRS	Rwy Idg 25L	Rwy Idg 25R
109.9	249°	11095	11134
Chan 36		TDZE 104	TDZE 102
		Apt Elev 126	Apt Elev 126

ILS or LOC RWY 25L

LOS ANGELES INTL (LAX)

⚠

Inoperative table does not apply to Sidestep Rwy 25R
Cats. A and B.
Simultaneous approach authorized with Rwy 24L/R.
LOC procedure NA during simultaneous operations.

ALSIF-2

Rwy 25L

MALSR

Rwy 25R

MISSED APPROACH:

Climb to 800 then climbing left turn to 2000 via heading 190° and LAX VORTAC R-210 to CATLY INT/LAX 12.8 DME and hold.

ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	N 133.9 239.3 S 120.95 379.1	GND CON	N 121.65 327.0 S 121.75 327.0	CLNC DEL	121.4 327.0
ARR 133.8	124.5 235.975 (225°-044°)		128.5 360.7 (045°-089°)						
DEP 135.65									

MISSED APCH FIX

CATLY INT LAX 12.8

Procedure NA for arrivals at SLI VORTAC via V459-597 southbound.

DME or RADAR REQUIRED

800	2000	LAX	CATLY INT LAX	# When assigned by ATC, intercept glidepath at 3700 or 5000.	TAROC	KRAIN	LUVYN
↑	190°	R-210 113.6	12.8	*LOC only	DYMMO I-LAX 33.2	I-LAX 36.7	I-LAX 41
Procedure	LADLE	HUNDA	GAATE	FUELR	I-LAX 29.7	RADAR	RADAR
Turn NA	I-LAX 3.5	I-LAX 7.4	I-LAX 12.8	I-LAX 16.6	I-LAX 26.4	RADAR	RADAR
	1900	3700#	5000#	7000	8000	9000	10000
1.5 NM	3.9 NM	5.4 NM	3.8 NM	9.8 NM	3.3 NM	3.5 NM	4.3 NM
CATEGORY	A	B	C	D			
S-ILS 25L	304/18 200 (200-½)						
S-LOC 25L	540/24	436 (500-½)	540/40	540/50			
			436 (500-¾)	436 (500-1)			
SIDESTEP RWY 25R	620/50	518 (500-1)	620-1½	518 (500-1½)			

ELEV 126

249° 5.4 NM from FAF

TDZ/CL Rwy 6R, 7L, 24R, and 25L

HIRL all Rwy

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

SW-3. 14 JAN 2010 to 11 FEB 2010

ILS or LOC RWY 25R
LOS ANGELES INTL (LAX)

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 via heading 220° and LAX VORTAC R-210 to CATLY INT/LAX 12.8 DME and hold.

LOS ANGELES
113.6 LAX
Chan 83

LOCALIZER
111.1
I-CFN
Chan 48

MISSED APCH FIX
115.7 SU
R-210
Chan 83

POMONA
110.4 POM
Chan 41

SEAL BEACH
115.7 SU
Chan 104

LOS ANGELES RADAR STATIONS:
R-210 (113.6 LAX)
R-098 (110.4 POM)
R-303 (115.7 SU)
R-068 (115.7 SU)

Other Radar Stations:
R-098 (110.4 POM)
R-303 (115.7 SU)
R-068 (115.7 SU)
R-068 (115.7 SU)

Frequency and Channel Data:
113.6 LAX (Chan 83)
111.1 LOCALIZER (Chan 48)
115.7 SU (Chan 83)
110.4 POM (Chan 41)
115.7 SU (Chan 104)
113.6 LAX (Chan 83)
111.1 LOCALIZER (Chan 48)
115.7 SU (Chan 83)
110.4 POM (Chan 41)
115.7 SU (Chan 104)

Map Details:
The map shows the Los Angeles area with various radar stations and their frequencies. Key locations include Los Angeles, Pomona, Seal Beach, and various radar stations like R-210, R-098, R-303, and R-068. The map also shows the coastline, major roads, and surrounding terrain.

MISSED APCH
FIX

113.6 LAX
R-210
Chan 83

110°

115.7 SLI
R-255
Chan 104

030°

CATLY INT
LAX 12.8

Procedure NA for arrivals at SLI VORTAC via
V459-597 southeast bound.

DME or RADAR REQUIRED

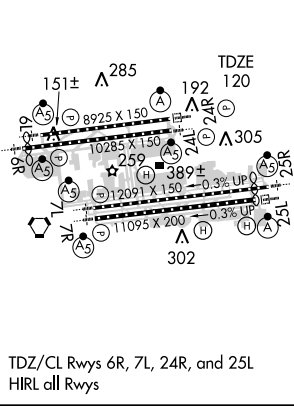
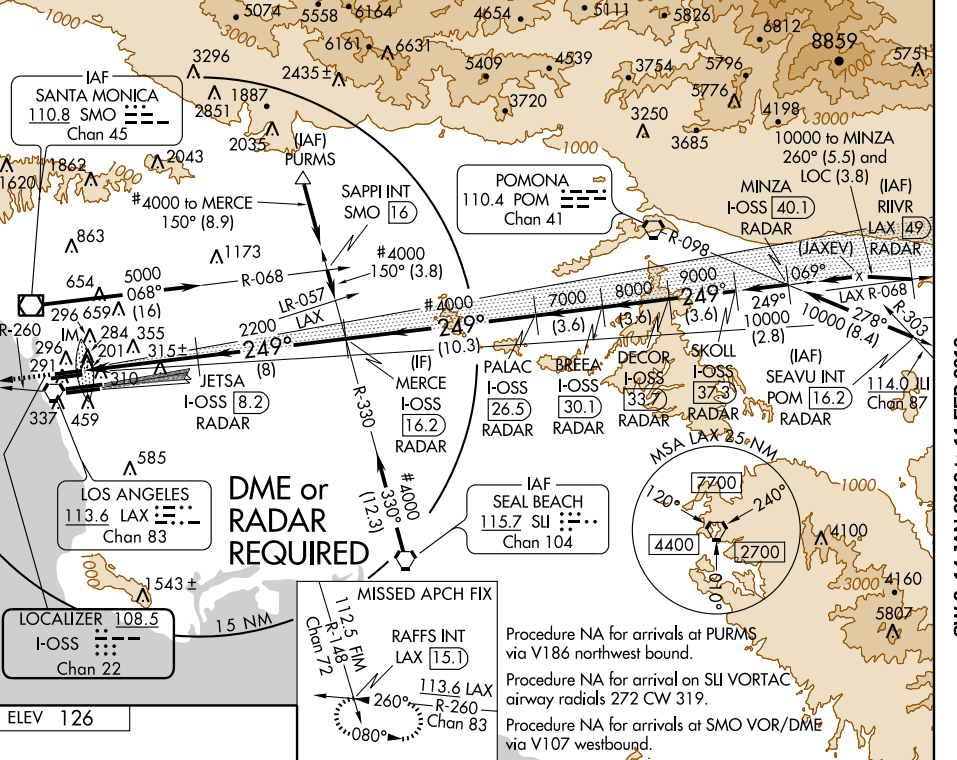
LOC/DME I-OSS	APP CRS	Rwy Idg	8925
108.5	249°	TDZE	120
Chan 22		Apt Elev	126

Simultaneous approach authorized with Rwy 25L/R.

ALSF-2

MISSED APPROACH: Climb to 2000 via heading 249° and LAX R-260 to RAFFS INT/LAX 15.1 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	[APCH FM WEST]		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		(045°-089°)	S 120.95 379.1	S 121.75 327.0	121.4 327.0



2000

LAX R-260 113.6

RAFFS INT LAX 15.1

When assigned by ATC, intercept glidepath at 4000.

JETSA I-OSS 8.2 RADAR

MERCE I-OSS 16.2 RADAR

PALAC I-OSS 26.5 RADAR

BREEA I-OSS 30.1 RADAR

DECOR I-OSS 33.7 RADAR

SKOLL I-OSS 37.3 RADAR

DH RA 115

120 MSL

IM

2200

4000#

7000

8000

9000

249°

10000

Procedure Turn NA

GS 3.00°

TCH 59

CATEGORY	A	B	C	D
S-ILS 24R	RA 220/12	100	DA 115	

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

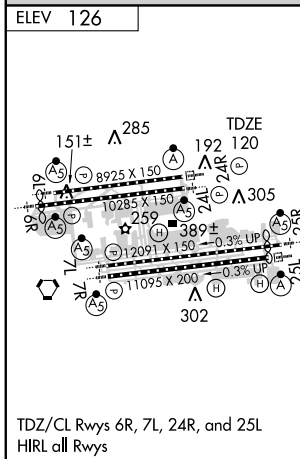
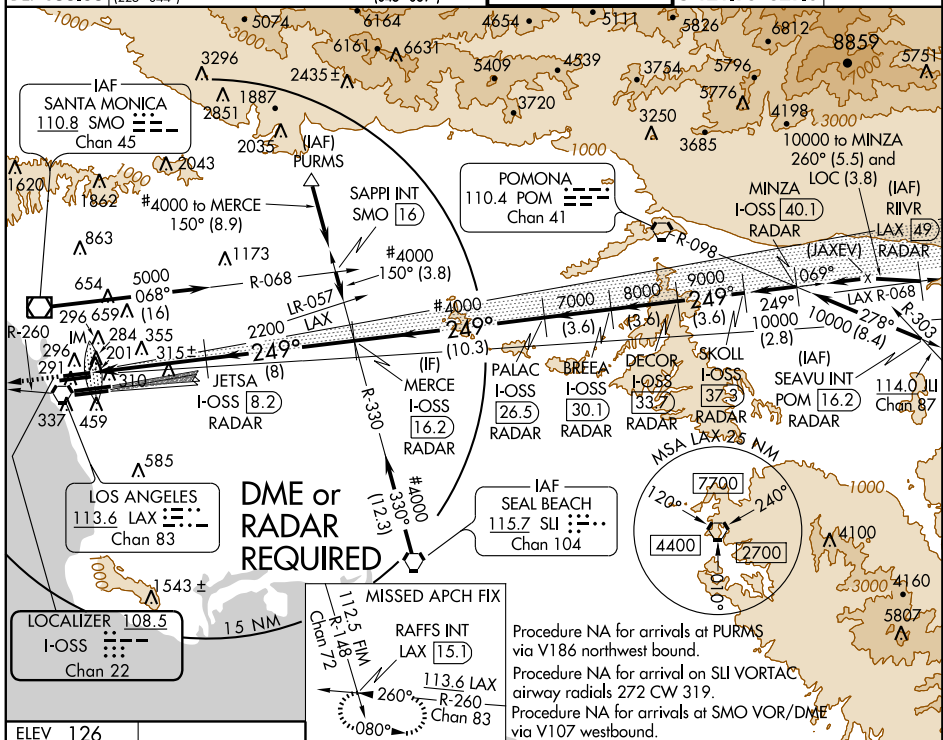
SW-3. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-OSS 108.5 Chan 22	APP CRS 249°	Rwy Idg TDZE Apt Elev	8925 120 126
---	------------------------	-----------------------------	---

ILS RWY 24R (CAT III)

LOS ANGELES INTL (LAX)

Simultaneous approach authorized with Rwy 25L/R.		ALSIF-2 	MISSED APPROACH: Climb to 2000 via heading 249° and LAX R-260 to RAFFS INT/LAX 15.1 DME and hold.		
ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0



2000 ↑ 249°	LAX R-260 113.6	RAFFS INT LAX 15.1	# When assigned by ATC, intercept glidepath at 4000.									
				JETSA I-OSS 8.2 RADAR	MERCE I-OSS 16.2 RADAR	PALAC I-OSS 26.5 RADAR	BREEA I-OSS 30.1 RADAR	DECOR I-OSS 33.7 RADAR	SKOLL I-OSS 37.3 RADAR			
120 MSL		IM	225	2200	2200	4000 #	7000	8000	9000	249°	10000	

LOC/DME I-LAX	APP CRS	Rwy Idg
109.9	249°	11095
Chan 36		TDZE 104
		Apt Elev 126

ILS RWY 25L (CAT II) **LOS ANGELES INTL (LAX)**



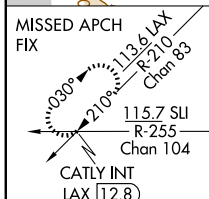
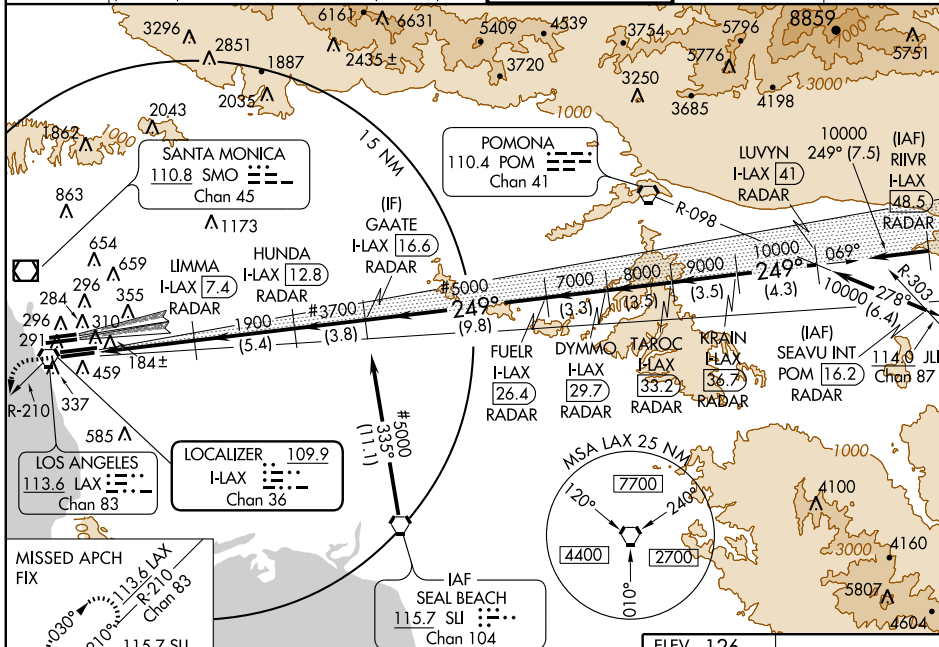
Simultaneous approach authorized with Rwy 24L/R.

ALSF-2



MISSED APPROACH: Climb to 800 then climbing left turn to 2000 via heading 190° and LAX VORTAC R-210 to CATLY INT/LAX 12.8 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			

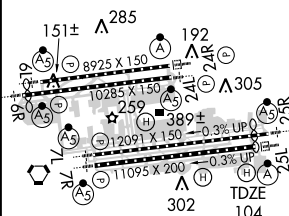


Procedure NA for arrivals at SLI VORTAC via V459-597 southbound.

DME or RADAR REQUIRED

800	2000	LAX	CATLY INT	# When assigned by ATC, intercept glidepath at 3700 or 5000.	TAROC	KRAIN	LUVYN
↑	190°	R-210	113.6		DYMMO I-LAX	I-LAX	I-LAX
					33.2	36.7	41
Procedure	LIMMA	HUNDA	GAATE	FUEL	I-LAX	I-LAX	I-LAX
Turn	I-LAX	I-LAX	I-LAX	I-LAX	29.7	33.2	41
NA	7.4	12.8	16.6	26.4	RADAR	RADAR	RADAR
DH	1900	1900	1900	1900	1900	1900	1900
RA 114							
104 MSL							
GS 3.00°							
TCH 56							
CATEGORY	A	B	C	D			
S-ILS 25L	RA 204/12 100 DA 114						

ELEV 126



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy's 6R, 7L, 24R, and 25L
HRL all Rwy's

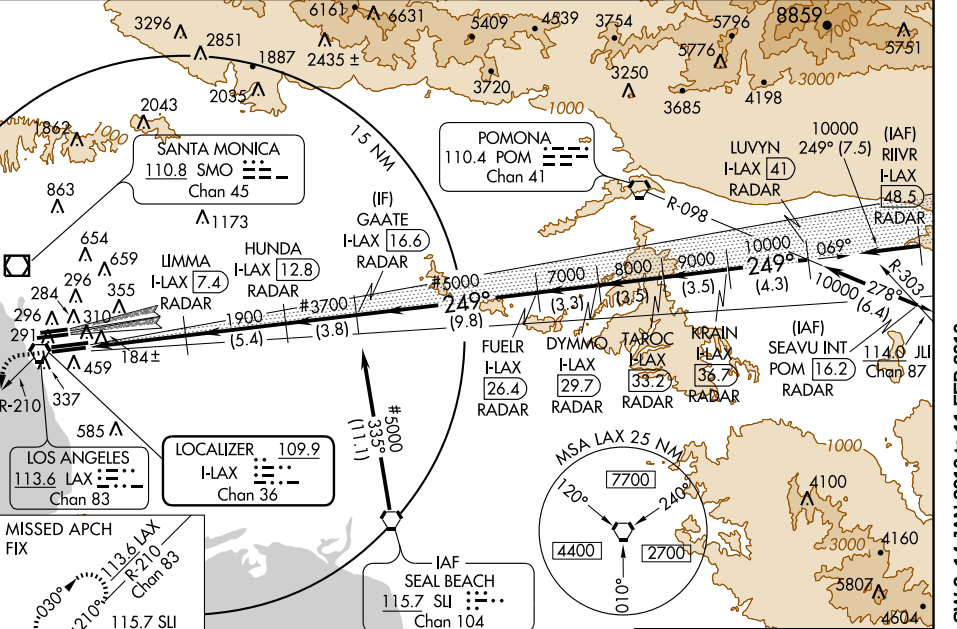
LOC/DME I-LAX	APP CRS	Rwy Idg	11095
109.9	249°	TDZE	104
Chan 36		Apt Elev	126

Simultaneous approach authorized with Rwy 24L/R.

ALSF-2

MISSED APPROACH: Climb to 800 then climbing left turn to 2000 via heading 190° and LAX VORTAC R-210 to CATLY INT/LAX 12.8 DME and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(ARCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



MISSED APCH FIX

113.6 LAX

Chan 83

115.7 SU

R-255

Chan 104

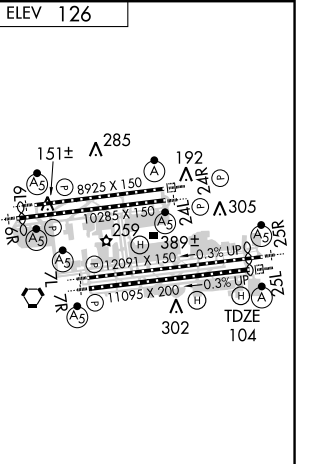
CATLY INT

LAX 12.8

Procedure NA for arrivals at SU VORTAC via V459-597 southbound.

DME or RADAR REQUIRED

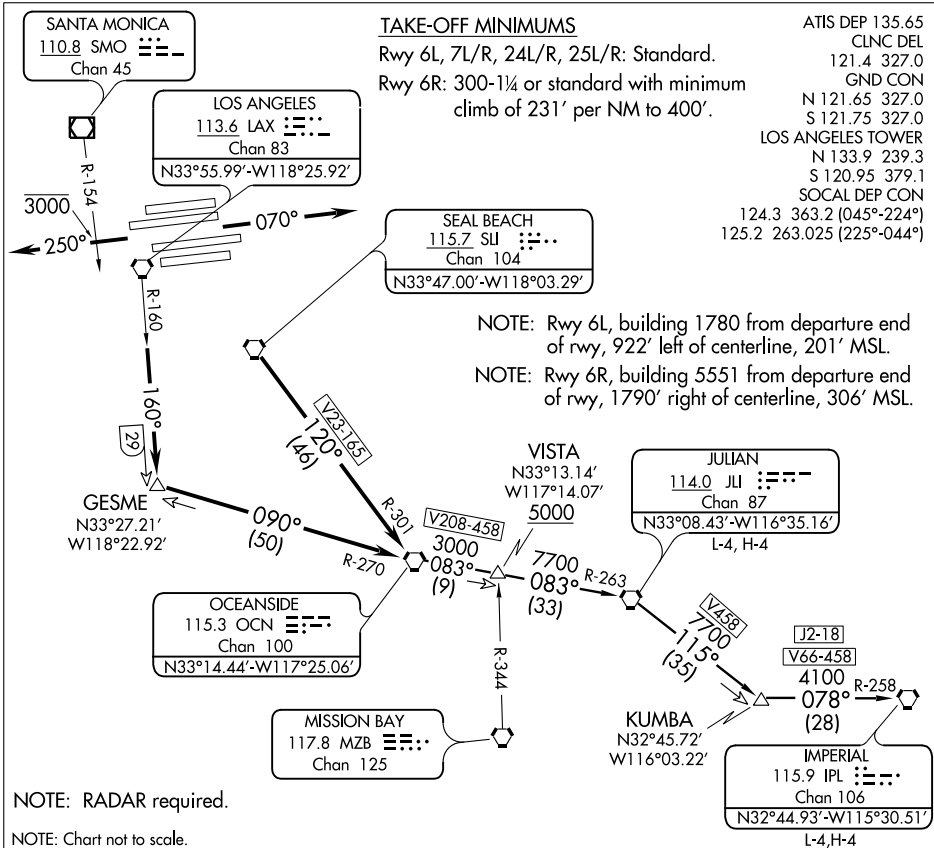
800	2000	LAX	CATLY INT	# When assigned by ATC, intercept glidepath at 3700 or 5000.			
↑	190°	R-210	LAX				
		113.6	12.8				
Procedure Turn NA				LIMMA I-LAX 7.4	HUNDA I-LAX 12.8	GAATE I-LAX 16.6	FUELR I-LAX 26.4
				RADAR	RADAR	RADAR	RADAR
104 MS�				1900	3700#	5000#	7000
				5.4 NM	5.4 NM	3.8 NM	9.8 NM
							3.3 NM
							3.5 NM
							3.5 NM
							4.3 NM
CATEGORY	A		B		C		D
S-ILS 25L			CAT IIIa		RVR 07		
S-ILS 25L			CAT IIIb		RVR 06		
S-ILS 25L			CAT IIIc		NA		



CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

SW-3. 14 JAN 2010 to 11 FEB 2010



SW-3 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to SLI VORTAC, then via SLI R-120 and OCN R-301 to OCN VORTAC. Thence, . . .

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000. Then via radar vectors to join LAX R-160 to GESME INT. Then via OCN R-270 to OCN VORTAC. Thence, . . .

... via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

IMPERIAL TRANSITION (IMPER1.IPL): From over OCN VORTAC via OCN R-083 and JLI R-263 to JLI VORTAC. Then via JLI R-115 and IPL R-258 to IPL VORTAC.

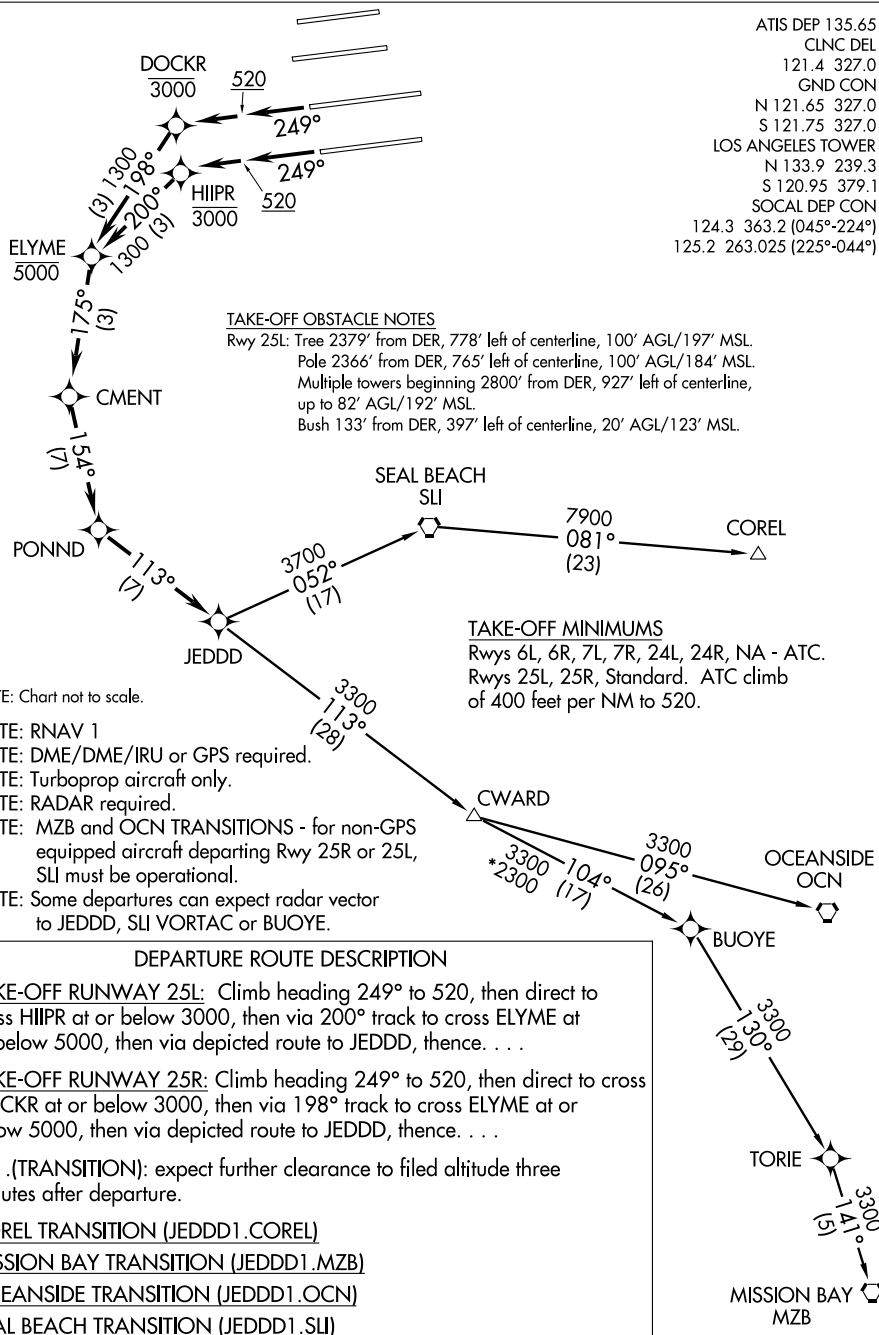
JULIAN TRANSITION (IMPER1 JULI): From over OCN VORTAC via OCN R-083 and JUL R-263 to JUL VORTAC.

JEDDD ONE DEPARTURE (RNAV)

SL-237 (FAA)

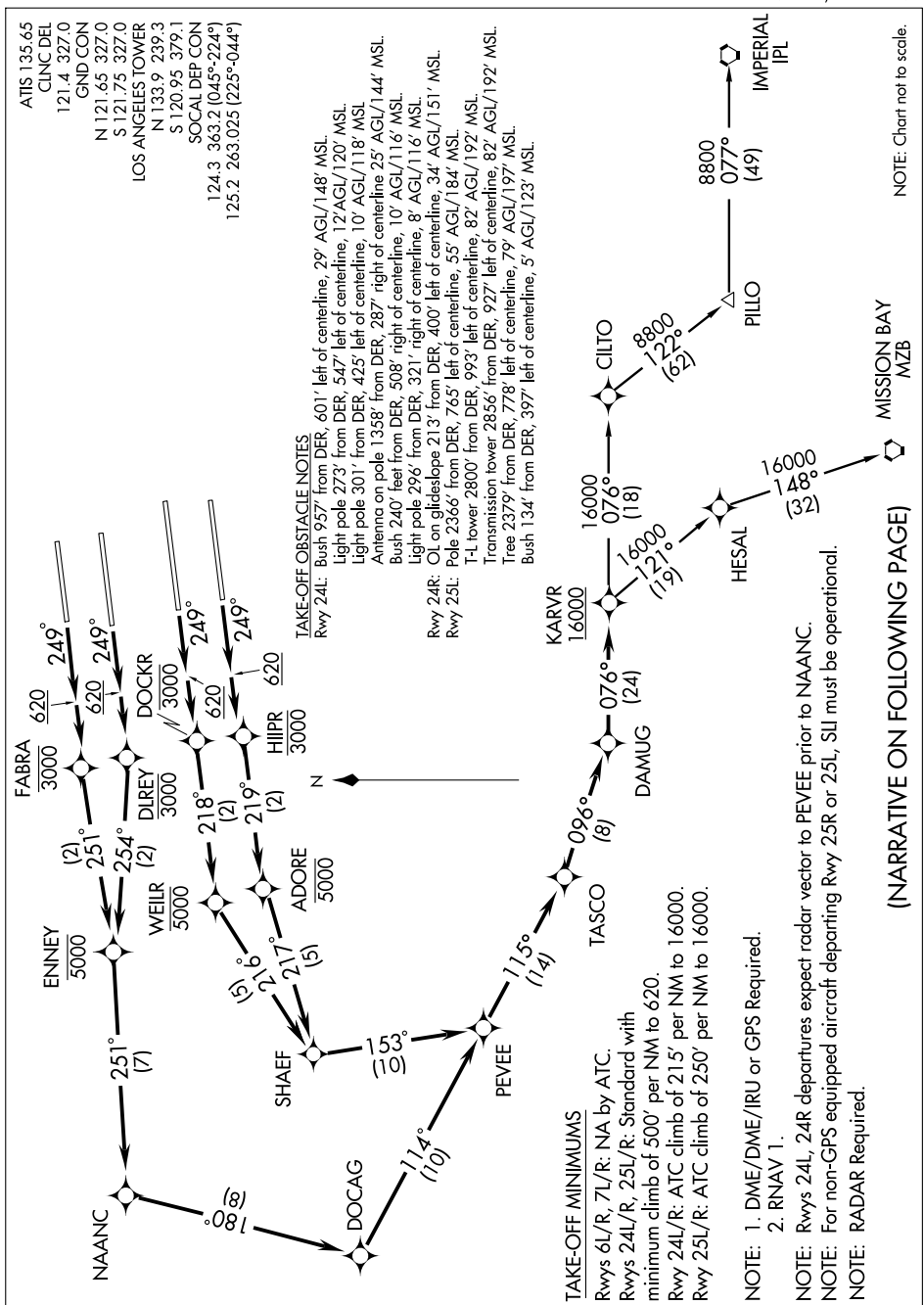
LOS ANGELES INTL (LAX)

LOS ANGELES, CALIFORNIA



KARVR THREE DEPARTURE (RNAV) SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000, then via 251° track to cross ENNEY at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000, then via 254° track to cross ENNEY at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000, then via 218° track to cross WEILR at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000, then via 219° track to cross ADORE at or below 5000, then via depicted route to cross KARVR at or above 16000. Thence....

..... via TRANSITION. Expect further clearance to filed altitude five minutes after departure.

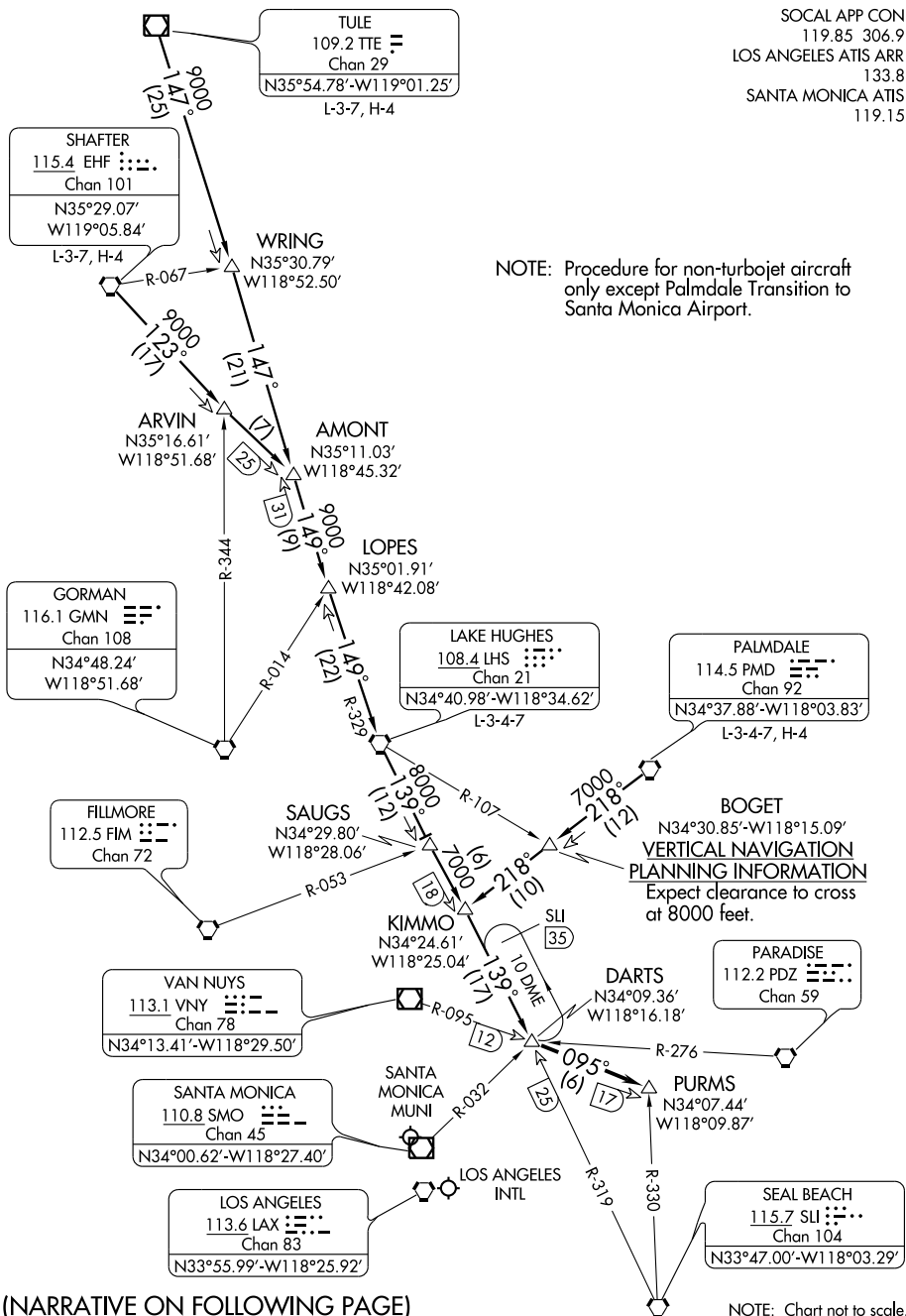
IMPERIAL TRANSITION (KARVR3.IPL)

MISSION BAY TRANSITION (KARVR3.MZB)

KIMMO TWO ARRIVAL

ST-237 (FAA)

LOS ANGELES, CALIFORNIA



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LAKE HUGHES TRANSITION (LHS.KIMMO2): From over LHS VORTAC via LHS R-139 to DARTS INT. Thence....

PALMDALE TRANSITION (PMD.KIMMO2): From over PMD VORTAC via PMD R-218 to KIMMO INT, then via LHS R-139 to DARTS INT. Thence....

SHAFTER TRANSITION (EHF.KIMMO2): From over EHF VORTAC via EHF R-123 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

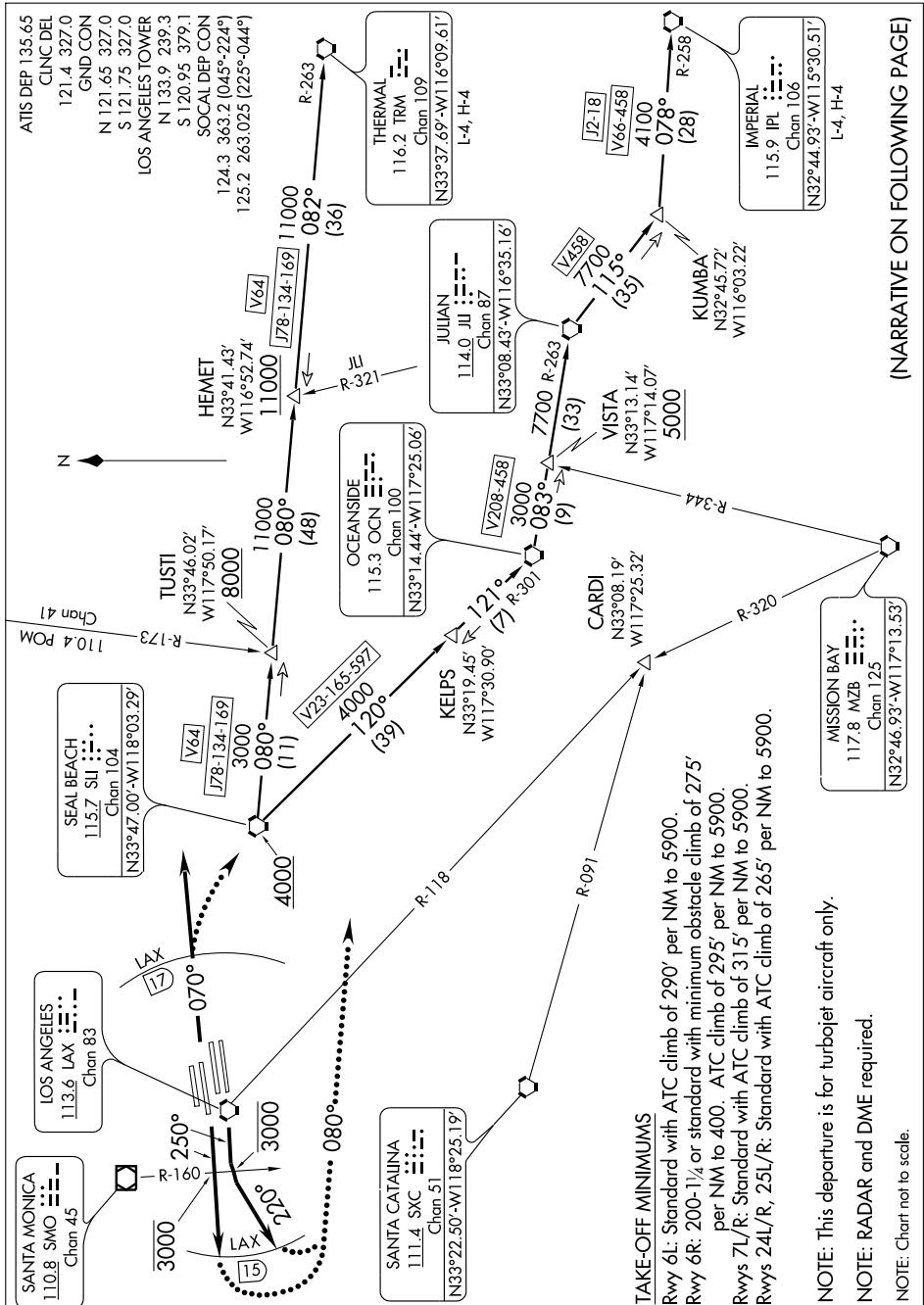
TULE TRANSITION (TTE.KIMMO2): From over TTE VOR/DME via TTE R-147 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

....LANDING LOS ANGELES INTL: From over DARTS INT via VNY R-095 to PURMS INT. Expect radar vectors to final approach course.

....LANDING SANTA MONICA MUNI: From over DARTS INT expect radar vectors to final approach course.

LAXX SIX DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 24L/R: Climb heading 250° to cross SMO R-160 at or below 3000, then via radar vectors to assigned route/fix/transition. Thence....

TAKE-OFF RUNWAYS 25L/R: Climb heading 250° to cross SMO R-160 at or below 3000, then via heading 220° for radar vectors to assigned route/fix/transition. Thence....

TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb heading 070° for vectors to SLI VORTAC. Thence....

....all aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS:

RUNWAYS 24L/R, 25L/R: If not in contact with departure control by 15 DME west of LAX VORTAC, then turn left heading 080°, climb to FL230 or filed altitude whichever is lower, and when able proceed direct filed or assigned route. Aircraft filed FL240 or above, maintain FL230 for five minutes then continue climb to filed altitude.

RUNWAYS 6L/R, 7 L/R: If not in contact with departure control by 17 DME east of LAX VORTAC, climb to FL230 or filed altitude whichever is lower, turn right direct SLI and proceed via assigned route. Aircraft filed FL240 or above, maintain FL230 for five minutes then continue climb to filed altitude.

THERMAL TRANSITION (LAXX6.TRM): From over SLI VORTAC via SLI R-080 and TRM R-263 to TRM VORTAC.

IMPERIAL TRANSITION (LAXX6.IPL): From over SLI VORTAC via SLI R-120 and OCN R-301 to OCN VORTAC, then via OCN R-083 and JLI R-263 to JLI VORTAC, then via JLI R-115 and IPL R-258 to IPL VORTAC.

TAKE-OFF OBSTACLE NOTES:

RWY 6L: Buildings and signs beginning 1693' from DER, 339' left of centerline, up to 50' AGL/201' MSL.

RWY 6R: Antenna on building 560' from DER, 479' right of centerline, 18' AGL/127' MSL.

OL on building 5550' from DER, 1791' right of centerline, 202' AGL/306' MSL.

OL on sign and sign beginning 1866' from DER, 920' left of centerline, up to 49' AGL/161' MSL.

RWY 7L: OL on blast fence 168' from DER, 33' left of centerline, 14' AGL/106' MSL.

Poles beginning 1290' from DER, 505' left of centerline, up to 55' AGL/147' MSL.

Antenna on building 1576' from DER, 315' left of centerline, 55' AGL/147' MSL.

Sign and railroad beginning 351' from DER, 10' left of centerline, up to 29' AGL/124' MSL.

Railroad 275' from DER, 500' right of centerline, 23' AGL/115' MSL.

App light and OL on LOC beginning 979' from DER, on rwy centerline, up to 27' AGL/119' MSL.

RWY 7R: Trees and building beginning 790' from DER, 606' right of centerline, up to 58' AGL/157' MSL.

RWY 24L: Bush 956' from DER, 600' left of centerline, 40' AGL/148' MSL.

Light poles beginning 273' from DER, 425' left of centerline, up to 10' AGL/120' MSL.

Antenna on pole 1357' from DER, 286' right of centerline, 36' AGL/144' MSL.

Light poles and bushes beginning 239' from DER, 321' right of centerline, up to 8' AGL/116' MSL.

RWY 24R: OL on GS, 212' from DER, 399' left of centerline, 39' AGL/151' MSL.

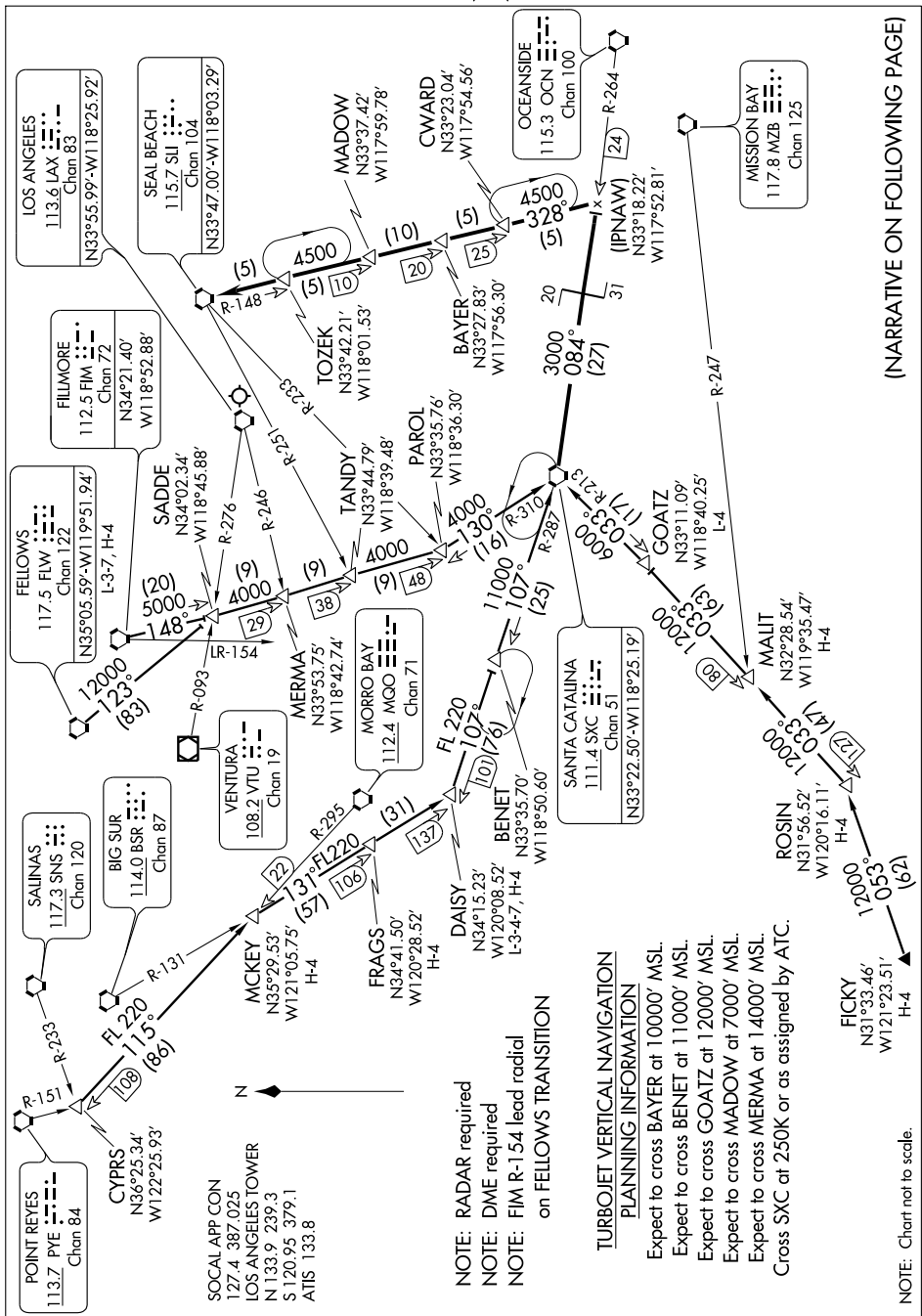
RWY 25L: Tree and pole beginning 2366' from DER, 764' left of centerline, up to 80' AGL/197' MSL.

Trmsn towers beginning 2800' from DER, 926' left of centerline, up to 71' AGL/192' MSL.

Bush 133' from DER, 397' left of centerline, 4' AGL/123' MSL.

LEENA FOUR ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

ARRIVAL DESCRIPTION

CYPRS TRANSITION (CYPRS.LEENA4): From over CYPRS INT via MQO R-295 to MCKEY INT, then via BSR R-131 to DAISY INT, and SXC R-287 to SXC VORTAC. Thence....

DAISY TRANSITION (DAISY.LEENA4): From over DAISY INT via SXC R-287 to SXC VORTAC. Thence....

FELLOWS TRANSITION (FLW.LEENA4): From over FLW VORTAC via FLW R-123 to SADDE INT, then via FIM R-148 to PAROL INT, and SXC R-310 to SXC VORTAC. Thence....

FICKY TRANSITION (FICKY.LEENA4): From over FICKY direct ROSIN DME, then via SXC R-213 to SXC VORTAC. Thence....

FILLMORE TRANSITION (FIM.LEENA4): From over FIM VORTAC via FIM R-148 to PAROL INT, then via SXC R-310 to SXC VORTAC. Thence....

FRAGS TRANSITION (FRAGS.LEENA4): From over FRAGS INT via BSR R-131 to DAISY INT, and SXC R-287 to SXC VORTAC. Thence....

GOATZ TRANSITION (GOATZ.LEENA4): From over GOATZ DME via SXC R-213 to SXC VORTAC. Thence....

MALIT TRANSITION (MALIT.LEENA4): From over MALIT DME via SXC R-213 to SXC VORTAC. Thence....

MCKEY TRANSITION (MCKEY.LEENA4): From over MCKEY INT via BSR R-131 to DAISY INT, and SXC R-287 to SXC VORTAC. Thence....

ROSIN TRANSITION (ROSIN.LEENA4): From over ROSIN DME via SXC R-213 to SXC VORTAC. Thence....

....From over SXC VORTAC via SXC R-084 and OCN R-264 to (IPNAW) to intercept the SLI R-148 to CWARD INT. From CWARD INT via SLI R-148 to SLI VORTAC. Expect radar vectors to ILS approach for Rwy 25L.

LOOP FOUR DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS DEP 135.65

CLNC DEL

121.4 327.0

GND CON

N 121.65 327.0

S 121.75 327.0

LOS ANGELES TOWER

N 133.9 239.3

S 120.95 379.1

SOCAL DEP CON

124.3 363.2 (045°-224°)

125.2 263.025 (225°-044°)

TAKE-OFF MINIMUMS

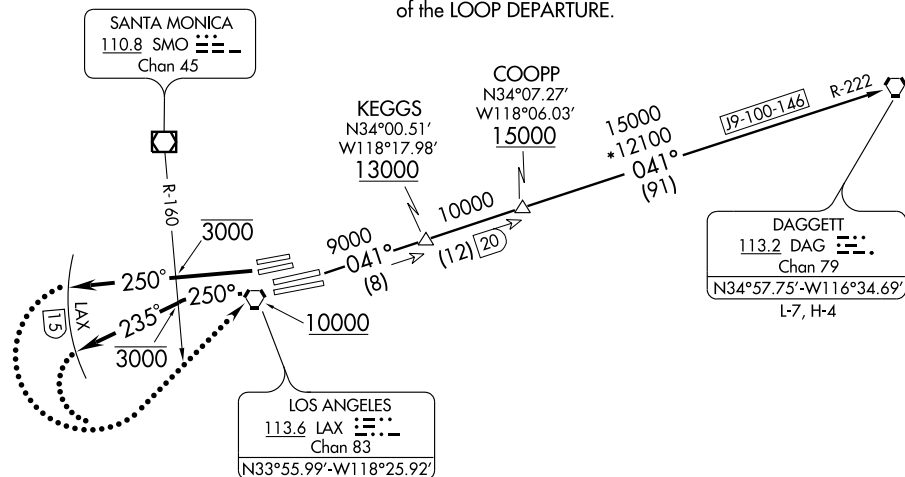
Rwys 24L/R, 25L/R: Standard.

Rwys 6L/R, 7L/R: NA- Air Traffic.

NOTE: RADAR and DME Required.

NOTE: ATC minimum climb of 500' per NM to 10,000 required. If unable, use LAXX DEPARTURE.

NOTE: Use LAXX DEPARTURE, DAGGETT TRANSITION, during the period 2100-0700 local time in lieu of the LOOP DEPARTURE.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

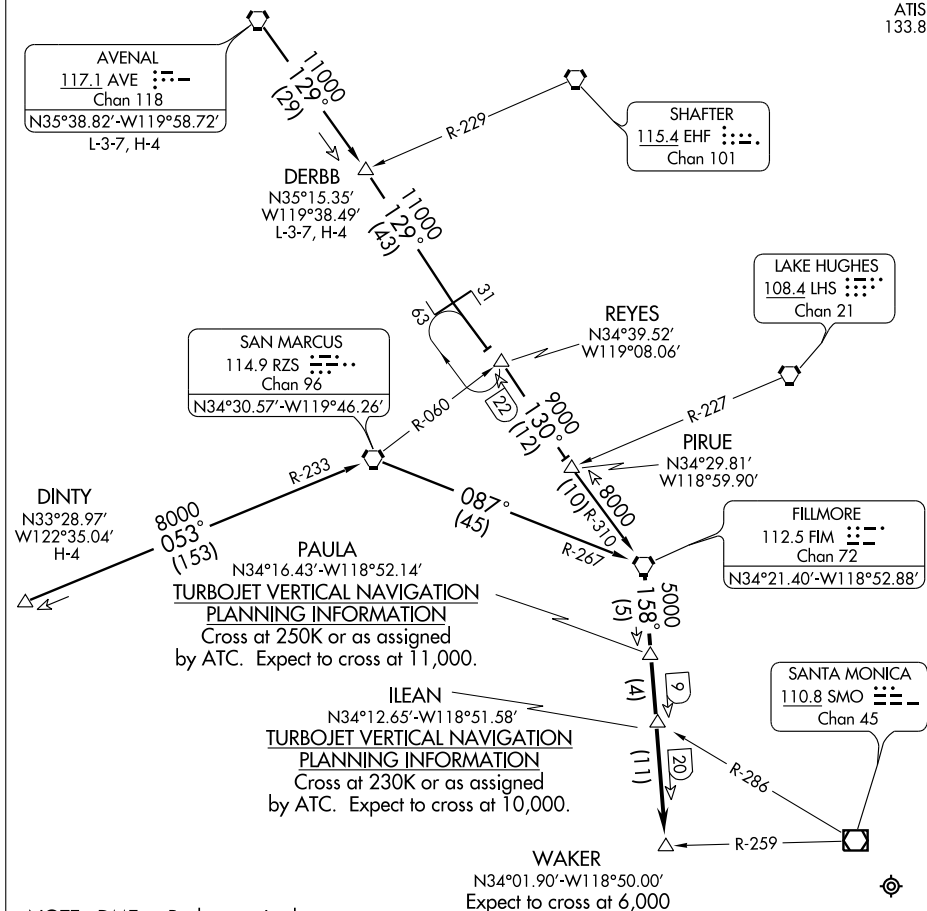
TAKE-OFF RUNWAYS 24L/R: Climb via heading 250° to cross SMO R-160 at or below 3000, then via radar vectors to LAX VORTAC. Expect left turn direct LAX VORTAC. Thence....

TAKE-OFF RUNWAYS 25L/R: Climb via heading 250° to cross SMO R-160 at or below 3000, then turn left heading 235° for vector to LAX VORTAC. Expect left turn direct LAX VORTAC. Thence....

.... via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control by 1.5 DME west of LAX VORTAC, turn left and proceed direct LAX VORTAC, climb to FL230 or filed altitude whichever is lower, and when able proceed via filed or assigned route/fix/transition. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

DAGGETT TRANSITION (LOOP4.DAG): From over LAX VORTAC via LAX R-041 and DAG R-222 to DAG VORTAC.

SOCAL APP CON
124.5 235.975
ATIS
133.8

NOTE: DME or Radar required.

NOTE: Chart not to scale.

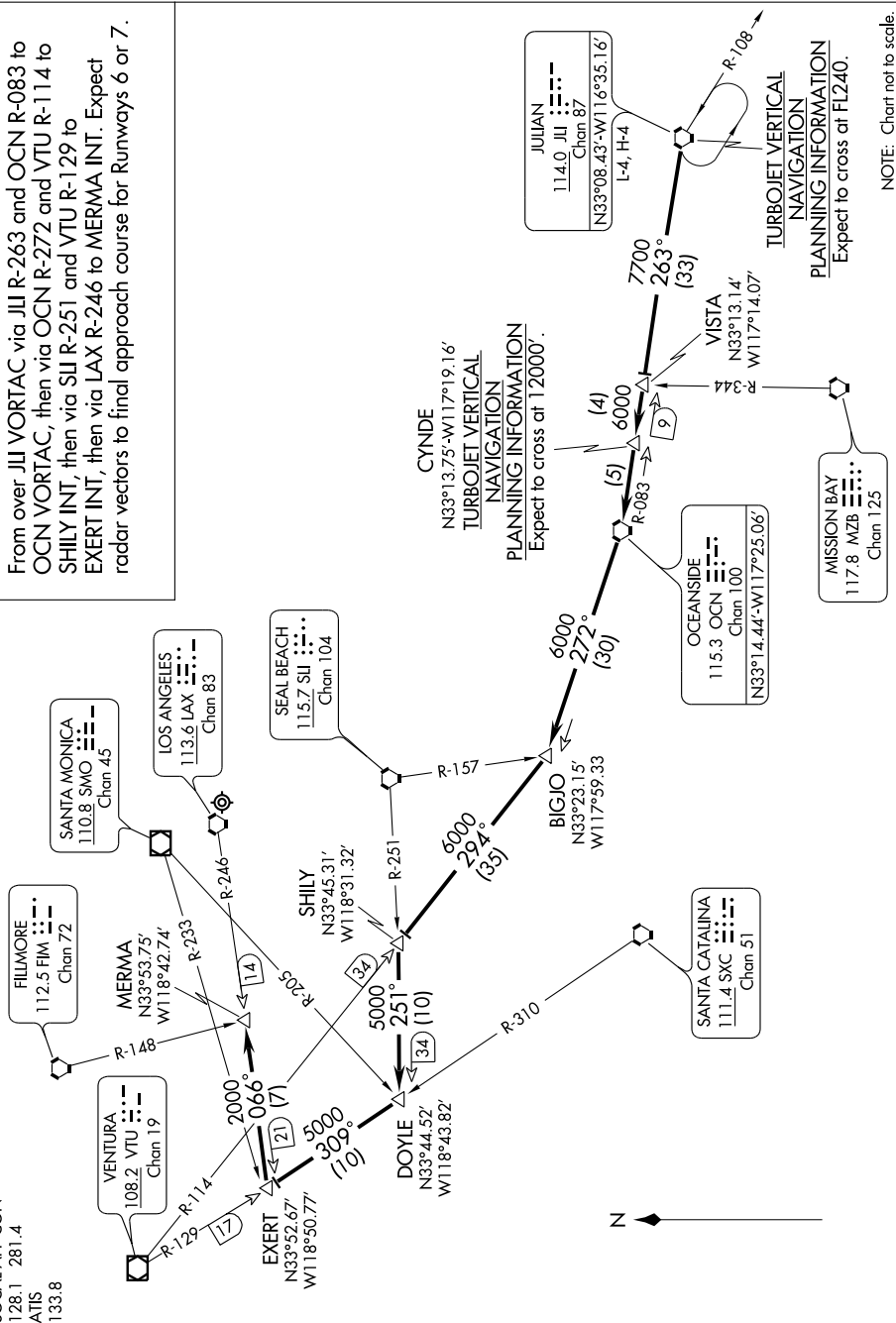
AVENAL TRANSITION (AVE.MOOR3): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.MOOR3): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DINTY TRANSITION (DINTY.MOOR3): From over DINTY INT via RZS R-233 to RZS VORTAC. Then via RZS R-087 and FIM R-267 to FIM VORTAC. Thence....

....From over FIM VORTAC via FIM R-158 to WAKER INT. For Runways 6L/R or 7L/R:
From WAKER INT expect vector to final approach course for LOS ANGELES INTERNATIONAL AIRPORT.

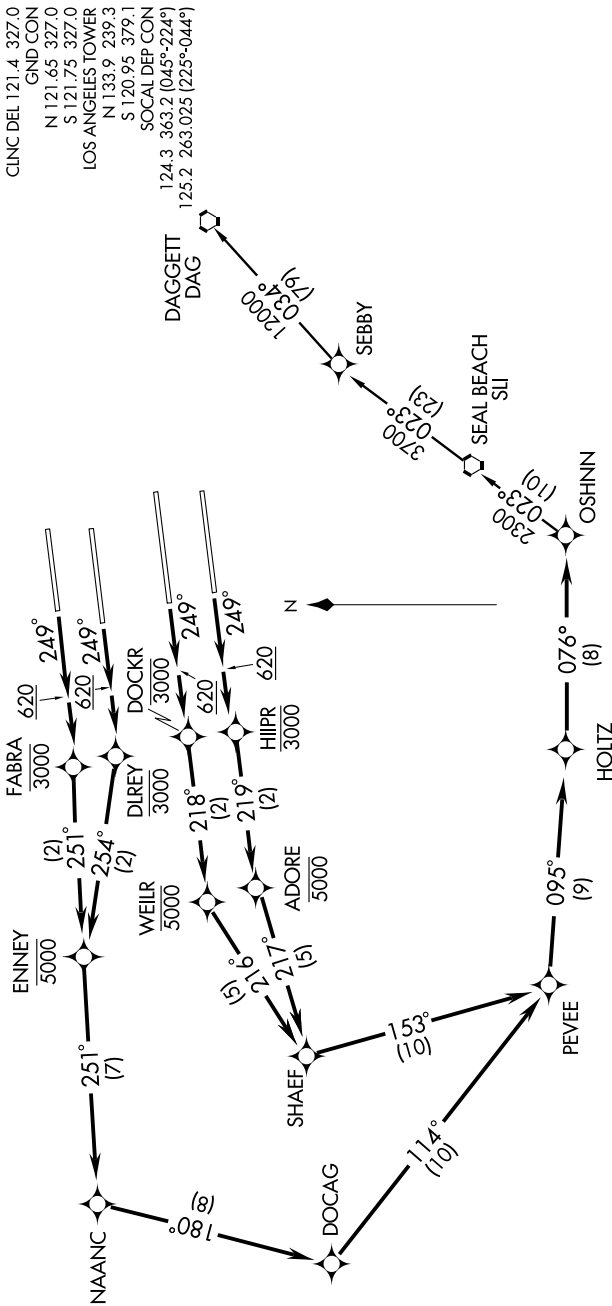
From over JLI VORTAC via JLI R-263 and OCN R-083 to OCN VORTAC, then via OCN R-272 and VTU R-114 to SHILY INT, then via SU R-251 and VTU R-129 to EXXERT INT, then via LAX R-246 to MERMA INT. Expect radar vectors to final approach course for Runways 6 or 7.



NOTE: Chart not to scale.

SW-3. 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.



TAKE-OFF MINIMUMS

Rwys 24L/R, 25L/R: Standard with minimum climb of 500' per NM to 620.
Rwys 6L/R, 7L/R: NA by ATC.

NOTE: 1. DME/DME/IRU or GPS Required.

2. RNAV 1.

NOTE: For non-GPS equipped aircraft departing Rwy 25R or 25L, SLI must be operational.

NOTE: Rwys 24L, 24R departure expect radar vector to PEVEE prior to NAANC.

NOTE: RADAR Required.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24R: Climb heading 249° to 620, then direct to cross FABRA at or below 3000, then via 251° track to cross ENNEY at or below 5000, then via depicted route to OSHNN, Thence....

TAKE-OFF RUNWAY 24L: Climb heading 249° to 620, then direct to cross DLREY at or below 3000, then via 254° track to cross ENNEY at or below 5000, then via depicted route to OSHNN, Thence....

TAKE-OFF RUNWAY 25R: Climb heading 249° to 620, then direct to cross DOCKR at or below 3000, then via 218° track to cross WEILR at or below 5000, then via depicted route to OSHNN, Thence....

TAKE-OFF RUNWAY 25L: Climb heading 249° to 620, then direct to cross HIIPR at or below 3000, then via 219° track to cross ADORE at or below 5000, then via depicted route to OSHNN, Thence....

..... via DAGGETT TRANSITION. Expect further clearance to filed altitude five minutes after departure.

DAGGETT TRANSITION (OSHNN3.DAG)

ATIS DEP 135.65
CLNC DEL
121.4 327.0
GND CON
N 121.65 327.0
S 121.75 327.0
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

TAKE-OFF MINIMUMS

Rwys 6L, 7L/R, 24L/R, 25L/R: Standard.

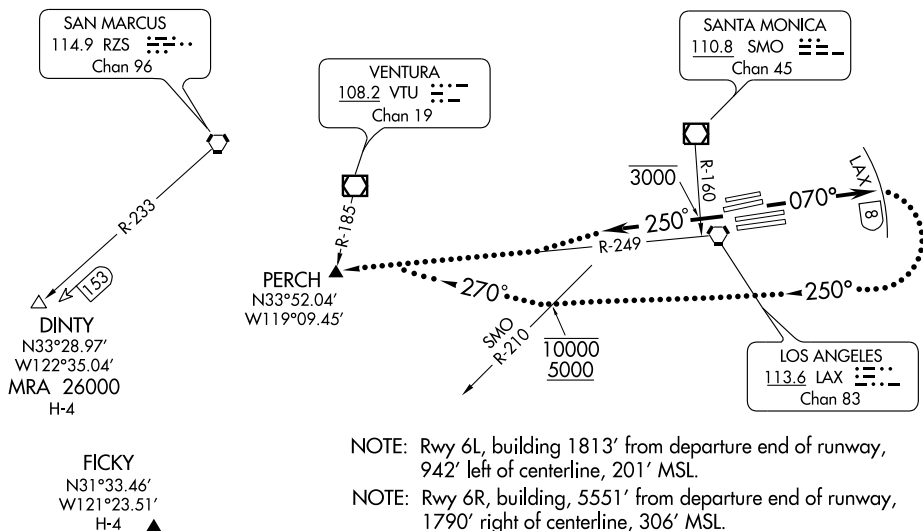
Rwy 6R: 300-1¼ or standard with minimum climb of 231' per NM to 400'.

NOTE: MRA DINTY DME FL 310 to receive LAX and RZS DME.

NOTE: RZS R-233/153 DME fix DINTY DME FIX MRA 26000.

NOTE: Route depicted is a LOST COMMUNICATION PROCEDURE ONLY.

NOTE: RADAR and DME required.



NOTE: Rwy 6L, building 1813' from departure end of runway, 942' left of centerline, 201' MSL.

NOTE: Rwy 6R, building, 5551' from departure end of runway, 1790' right of centerline, 306' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to DINTY INT or FICKY INT. Thence....

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-160 at or below 3000, then via radar vectors to DINTY INT or FICKY INT. Thence

....via (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS:

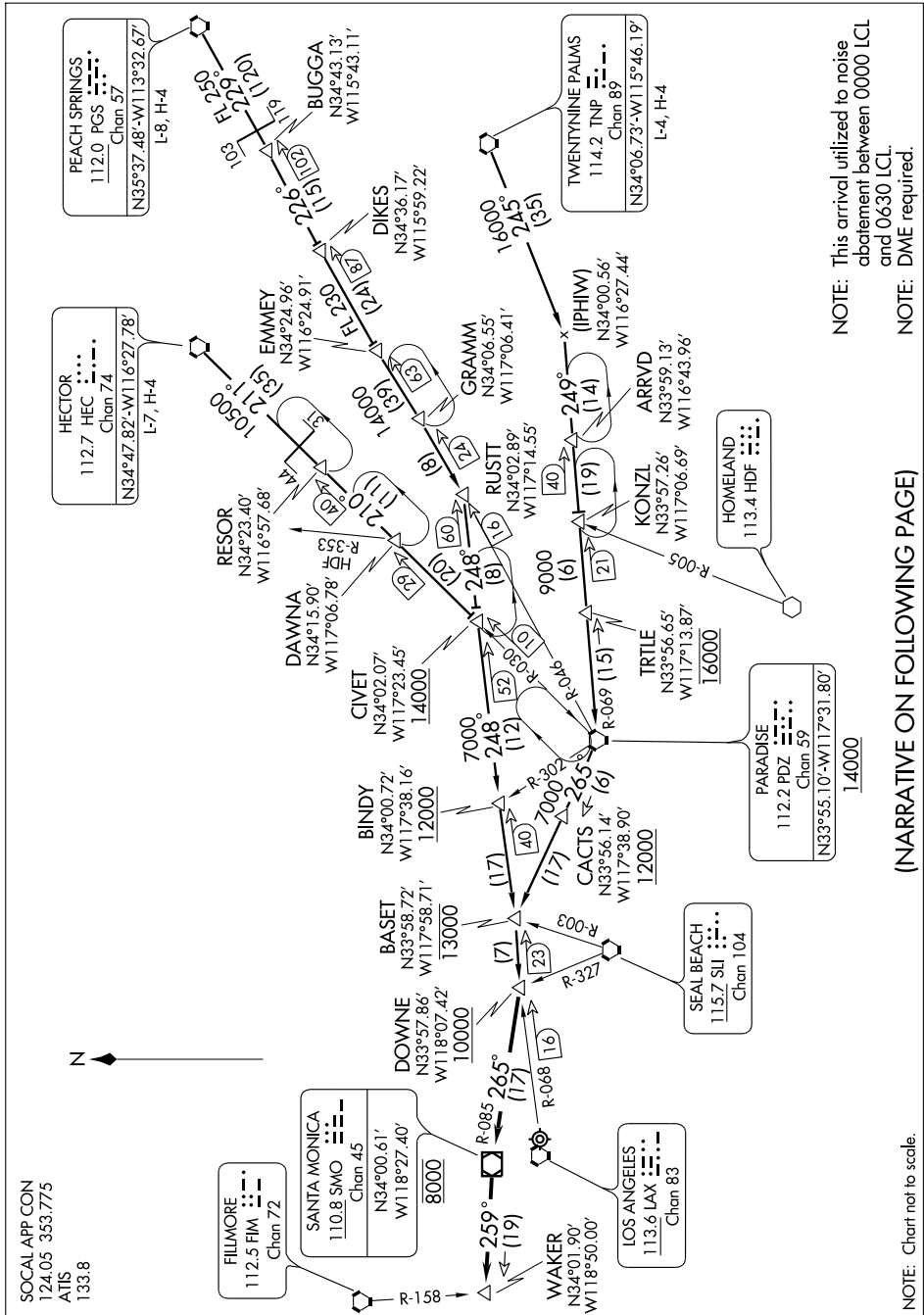
TAKE-OFF RUNWAYS 6L/R, 7L/R: If not in contact with Departure Control upon reaching LAX 8 DME, turn right heading 250°. Cross SMO R-210 at or above 5000' and at or below 10000'. After leaving 10000', turn right heading 270° to intercept and proceed via LAX R-249 to PERCH INT.

TAKE-OFF RUNWAYS 24L/R, 25L/R: If not in contact with Departure Control within five minutes after departure, proceed to PERCH INT via LAX R-249.

Climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

REDEYE TWO ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.RDEYE2): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then LAX R-068 to DOWNE INT. Thence....

PEACH SPRINGS TRANSITION (PGS.RDEYE2): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then LAX R-068 to DOWNE INT. Thence....

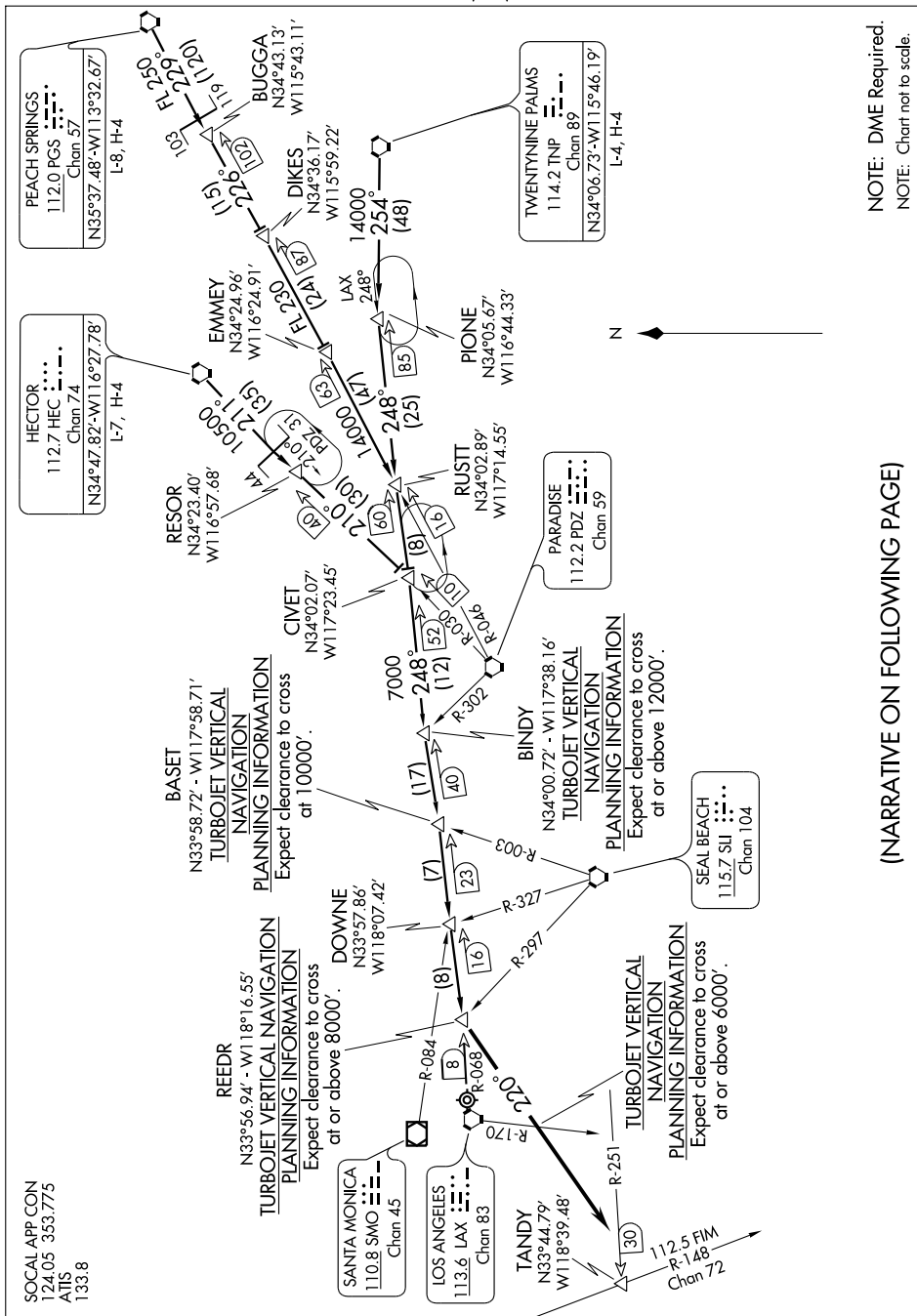
TWENTYNINE PALMS TRANSITION (TNP.RDEYE2): From over TNP VORTAC via TNP R-245 and PDZ R-069 to PDZ VORTAC, then PDZ R-265 to BASET INT, then LAX R-068 to DOWNE INT. Thence....

....From DOWNE INT via SMO R-085 to SMO VOR/DME, then via SMO R-259 to WAKER INT. Expect vector to final approach course for runways 6 and 7.

REEDR THREE ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIA



NOTE: DME Required.

(NARRATIVE ON FOLLOWING PAGE)

SW-3. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

HECTOR TRANSITION (HEC.REEDR3): From over HEC VORTAC via HEC R-211 and PDZ R-030 to CIVET INT, then LAX R-068 to REEDR INT. Thence....

PEACH SPRINGS TRANSITION (PGS.REEDR3): From over PGS VORTAC via PGS R-229 and PDZ R-046 to RUSTT INT, then LAX R-068 to REEDR INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.REEDR3): From over TNP VORTAC via TNP R-254 to PIONE INT, then LAX R-068 to REEDR INT. Thence....

....From over REEDR INT via heading 220° for radar vector to final approach course for Runways 6 or 7.

LOST COMMUNICATIONS: Depart REEDR INT heading 220° to intercept the SLI R-251 to TANDY INT/SLI 30 DME.

T

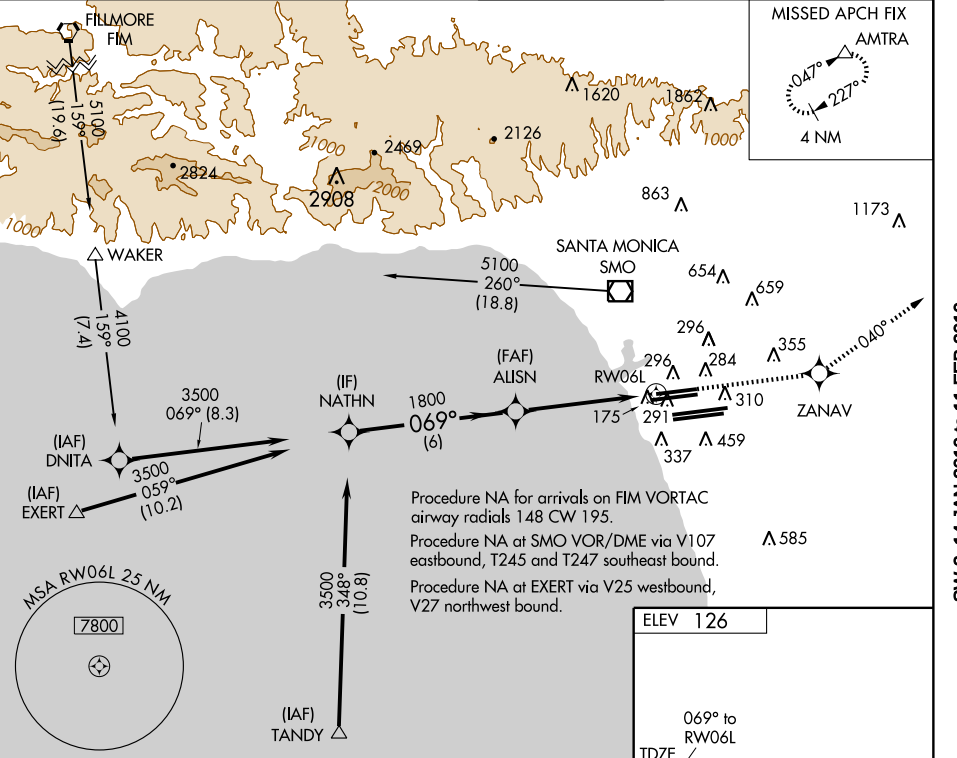
W

Inoperative table does not apply to LPV, LNAV/VNAV, and LNAV Cat A and B.
For inoperative MALSR, increase LNAV Cat C and D visibility to RVR 6000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F).
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

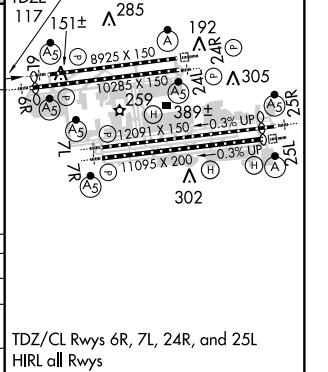
MALSR

MISSED APPROACH: Climb to 3000 direct ZANAV and via 040° track to AMTRA and hold.

ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	N 133.9 239.3 S 120.95 379.1	GND CON	N 121.65 327.0 S 121.75 327.0	CLNC DEL	121.4 327.0
ARR 133.8									
DEP 135.65	124.5 235.975 (225°-044°)		128.5 360.7 (045°-089°)						



Procedure Turn NA		NATHN	VGSI and RNAV glidepath not coincident		3000	ZANAV	040° trk	AMTRA
3500			ALISN					
GS 3.00°			1800					
TCH 54			RW06L					
		6 NM	5.1 NM					
CATEGORY	A	B	C	D				
LPV DA		390/50	273 (300-1)					
LNAV/VNAV DA		441/50	324 (400-1)					
LNAV MDA		540/50	423 (500-1)					



SW-3, 14 JAN 2010 to 11 FEB 2010

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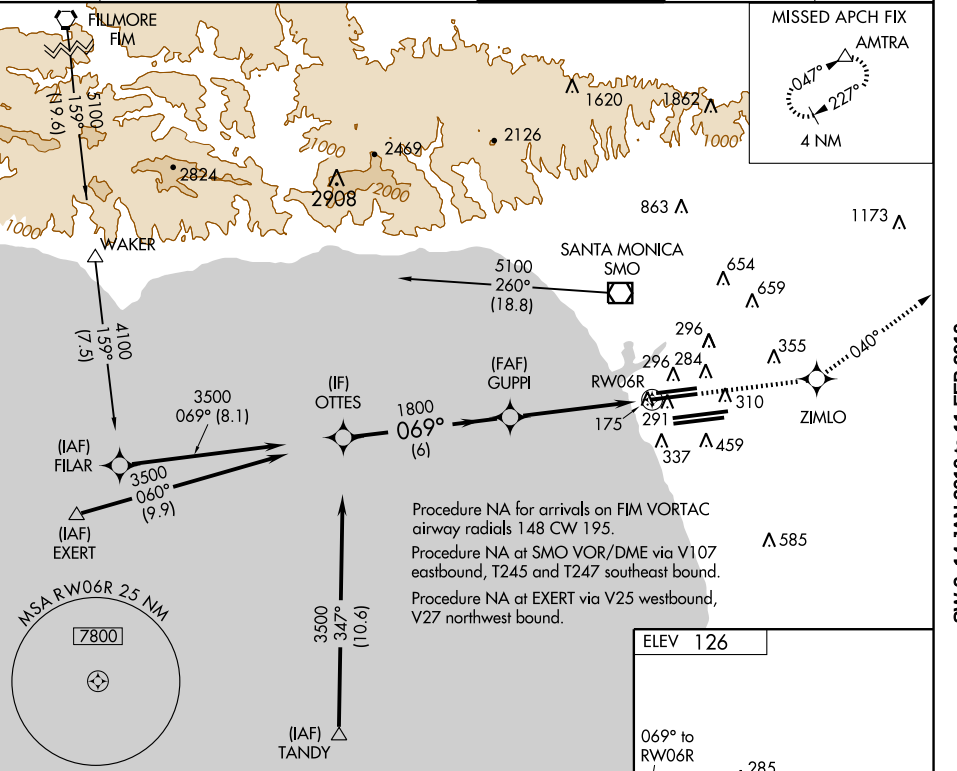
W

For inoperative MALSR, increase LPV all Cots and LNAV/VNAV Cat D visibility to RVR 5000, and increase RNAV Cat D visibility to RVR 6000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

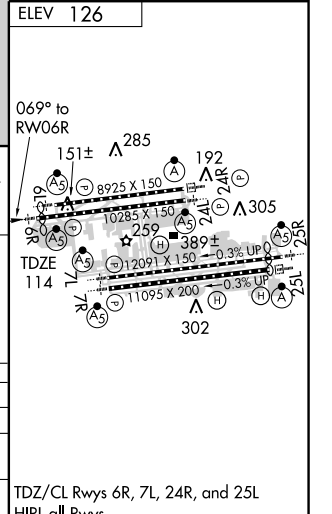
MALSR

MISSED APPROACH: Climb to 3000 direct ZIMLO and via 040° track to AMTRA and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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Procedure Turn NA	OTTES	VGSI and RNAV glidepath not coincident	3000	ZIMLO	040° trk	AMTRA	
GS 3.00° TCH 43	3500	GUPPI	1800	069°	1.1 NM to RWY 06R	*LNAV only	
	6 NM	4 NM	1.1 NM				
CATEGORY	A	B	C	D			
LPV DA	364/24 250 (300-½)						
LNAV/VNAV DA	425/24 311 (300-½)			425/40 311 (300-¾)			
LNAV MDA	520/24 406 (400-½)		520/40 406 (400-¾)	520/50 406 (400-1)			



SW-3. 14 JAN 2010 to 11 FEB 2010

For inoperative MALSR, increase LPV all Cats visibility to RVR 5000.

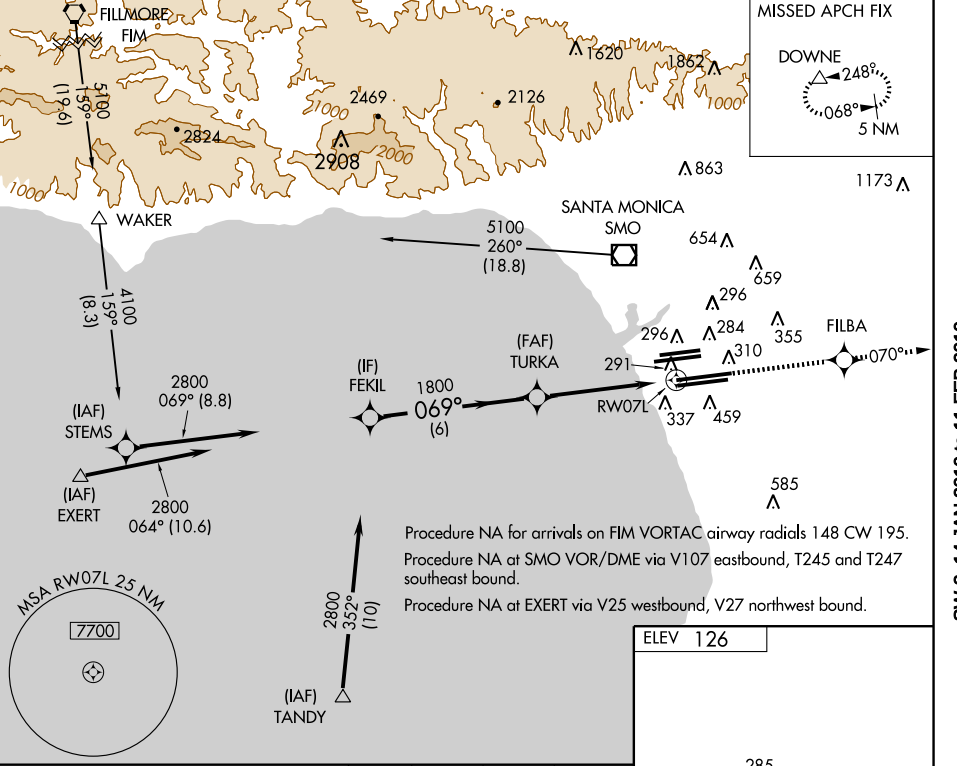
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

DME/DME RNP -0.3 NA.

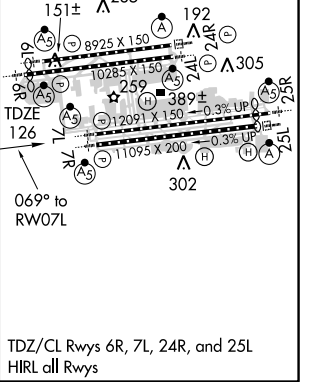
MALSR

MISSED APPROACH: Climb to 3000 direct FILBA then via 070° track to DOWNE and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR	133.8	(APCH FM WEST)	(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP	135.65	124.5 235.975	128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
		(225°-044°)	(045°-089°)			



	FEKIL	Procedure Turn NA	3000	FILBA	070° trk	DOWNE
	2800	069°	1800	RW07L		
	GS 3.00°					
	TCH 59					
CATEGORY	A	B	C	D		
LPV DA	432/24		306 (400-½)			
LNAV/VNAV DA	582/50		456 (500-1)			
LNAV MDA	600/24 474 (500-½)		600/40 474 (500-¾)		600/50 474 (500-1)	



SW-3: 14 JAN 2010 to 11 FEB 2010

WAAS
CH **69603**
WOTB

APP CRS
069°

Rwy Idg **11095**
TDZE **125**
Apt Elev **126**

For inoperative MALSR, increase LPV all Cats. visibility to RVR 5000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 3000
direct ESINE and via 069° track to
DOWNE and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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Map showing the Los Angeles area with various airports and navigation aids. Key locations include FILLMORE (FIM), SANTA MONICA (SMO), and LOS ANGELES INTERNATIONAL (LAX). The map displays several flight paths and altitudes, including a missed approach fix for DOWNE. A circular inset shows the MSA RWY 7R 25 NM with a 7700 frequency.

Procedure Turn NA

VGSI and RNAV glidepath not coincident.

3000

ESINE

069° trk

DOWNE

2800

069°

FUMBL

1800

GS 3.00°
TCH 59

6 NM

3.7 NM

1.3

RW07R

* 1.3 NM to RW07R

* LNAV only

CATEGORY	A	B	C	D
LPV DA	417/24 292 (300-½)			
LNAV/VNAV DA	582/50 457 (500-1)			
LNAV MDA	600/24 475 (500-½)		600/40 475 (500-¾)	600/50 475 (500-1)

151±

285

192

305

259±

10285 X 150

12091 X 150

389±

11095 X 200

302

TDZE 125

069° to RW07R

TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

SW-3: 14 JAN 2010 to 11 FEB 2010

WAAS CH 56407 W24B	APP CRS 249°	Rwy Idg TDZE Apt Elev	10285 121 126
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For inoperative MALSR, increase LPV all Cats visibility to RVR 6000.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 2000 direct JAKOS and via 261° track to RAFFS and hold.

ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	N 133.9 239.3 S 120.95 379.1	GND CON	N 121.65 327.0 S 121.75 327.0	CLNC DEL	121.4 327.0
ARR	133.8								
DEP	135.65								

MISSED APCH FIX

ELEV 126

TDZ/CL Rwy 6R, 7L, 24R, and 25L

HIRL all Rwy

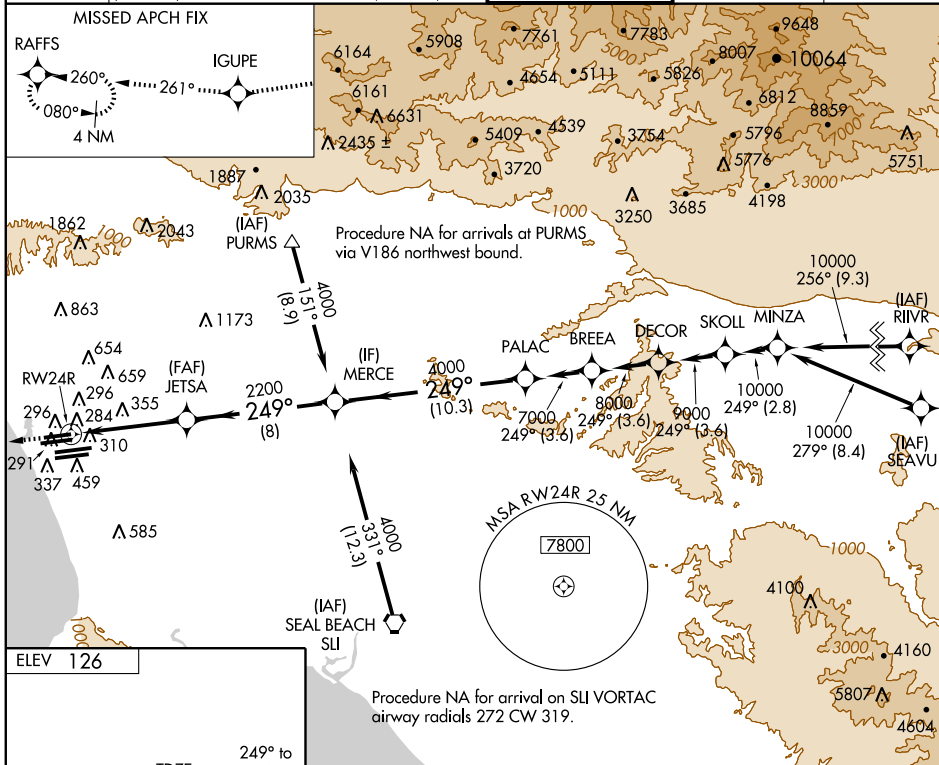
2000	JAKOS	261° trk	RAFFS	VGSI and RNAV glidepath not coincident.	HURLR						
*LNAV only					JULLI	SUTIE	249°	7000	Procedure Turn NA		
CATEGORY					A	B	C	D			
LPV					DA	469/40 348 (400-¾)					
LNAV/VNAV					DA	606/60 485 (500-1¼)					
LNAV					MDA	660/24 539 (600-½)		660/50 539 (600-1)		660/60 539 (600-1¼)	

SW-3, 14 JAN 2010 to 11 FEB 2010

WAAS CH 69307 W24A	APP CRS 249°	Rwy Idg 8925 TDZE 120 Apt Elev 126
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RNAV (GPS) Y RWY 24R
LOS ANGELES INTL (LAX)

 DME/DME RNP-0.3 NA.  For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F).		ALSF-2 	MISSED APPROACH: Climb to 2000 direct IGUPE and via 261° track to RAFFS and hold.		
ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCIAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0



RWY 24R

CATEGORY	A	B	C	D
LPV DA	374/24 254 (300-½)			
LNAV/VNAV DA	604/60 484 (500-1¼)			
LNAV MDA	660/24 540 (600-½)	660/50 540 (600-1)	660/60 540 (600-1¼)	

TDZ/CL Rwy's 6R, 7L, 24R, and 25L
HIRL all Rwy's

WAAS CH 53507 W25A	APP CRS 249°	Rwy Idg TDZE Apt Elev	11095 104 126
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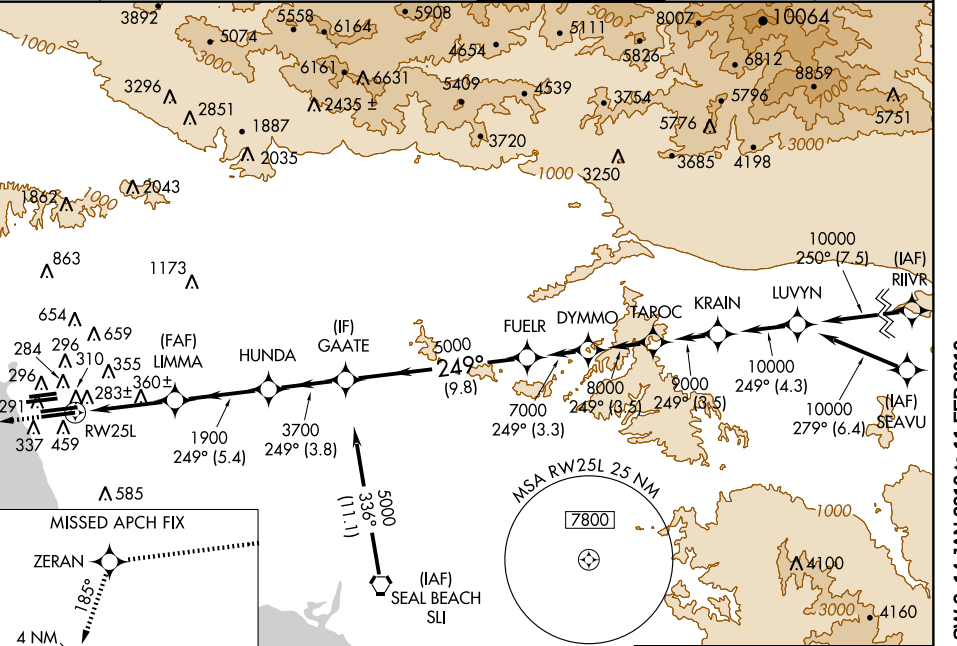
W

For inoperative ALSF-2, increase LPV all Cats. visibility to RVR 5000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 2000
direct ZERAN and via 185° track to
CATLY and hold.

ATIS ARR 133.8 DEP 135.65	124.3 363.2 (APCH FM WEST) 124.5 235.975 (225°-044°)	SOCAL APP CON 124.9 269.0 (090°-224°) 128.5 360.7 (045°-089°)	LOS ANGELES TOWER N 133.9 239.3 S 120.95 379.1	GND CON N 121.65 327.0 S 121.75 327.0	CLNC DEL 121.4 327.0
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2000

ZERAN

185°
trk

CATLY

*LNAV only

RW25L

LIMMA

HUNDA

GAATE

FUEL

*1.5 NM to RW25L

1900

3700

5000

7000

GS 3.00°

TCH 56

Procedure Turn NA

CATEGORY	A	B	C	D
LPV DA	365/24 261 (300-½)			
LNAV/VNAV DA	575/60 471 (500-1¼)			
LNAV MDA	640/24 536 (600-½)	640/50 536 (600-1)	640/60 536 (600-1¼)	

ELEV 126

SW-3. 14 JAN 2010 to 11 FEB 2010

WAAS	APP CRS	Rwy Idg	11134
CH 49007	249°	TDZE	102
W25B		Apt Elev	126

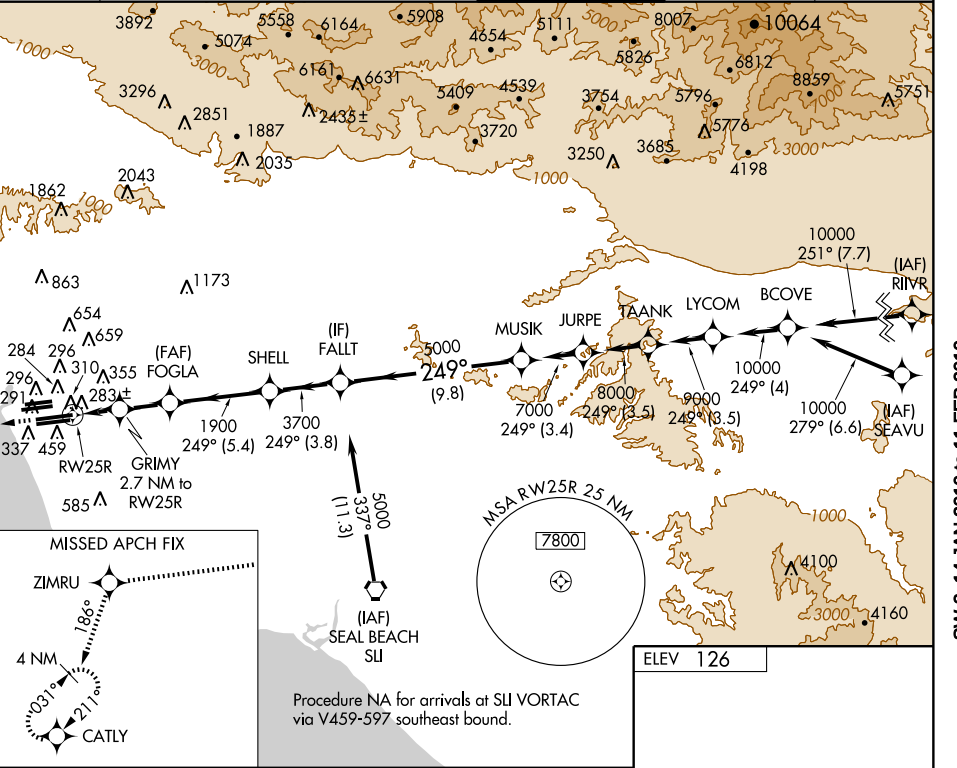
W

For inoperative MALSR, increase LPV all Cats visibility to RVR 5000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

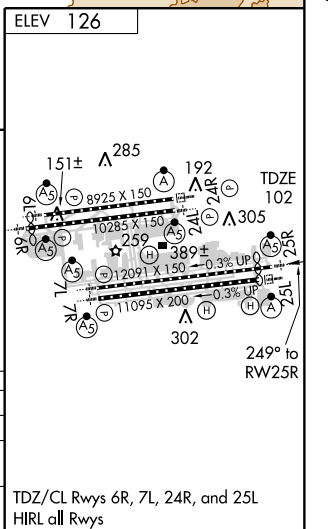
MALSR

MISSED APPROACH: Climb to 2000 direct ZIMRU and via 186° track to CATLY and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



2000	ZIMRU	186° trk	CATLY	MUSIK
*LNAV only	GRIMY 2.7 NM to RW25R	FOGLA 1900	SHELL 3700	FALLT 5000
	*1.5 NM to RW25R			7000
	1.5	1.2	2.7 NM	5.4 NM
			3.8 NM	9.8 NM
CATEGORY	A	B	C	D
LPV DA	369/24 267 (300-½)			
LNAV/VNAV DA	576/60 474 (500-1¼)			
LNAV MDA	640/24 538 (600-½)	640/50 538 (600-1)	640/60 538 (600-1¼)	



SW-3. 14 JAN 2010 to 11 FEB 2010

RNAV (RNP) Z RWY 6L

LOS ANGELES INTL (LAX)

APP CRS	Rwy Idg	8925
069°	TDZE	117
	Apt Elev	126

V GPS required.

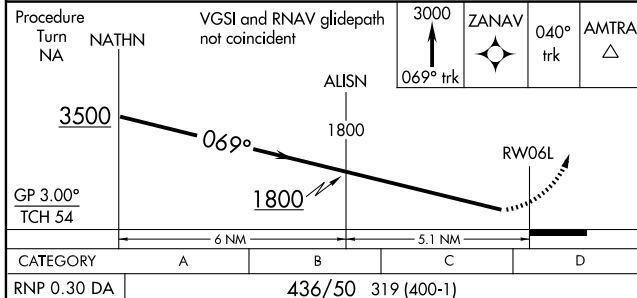
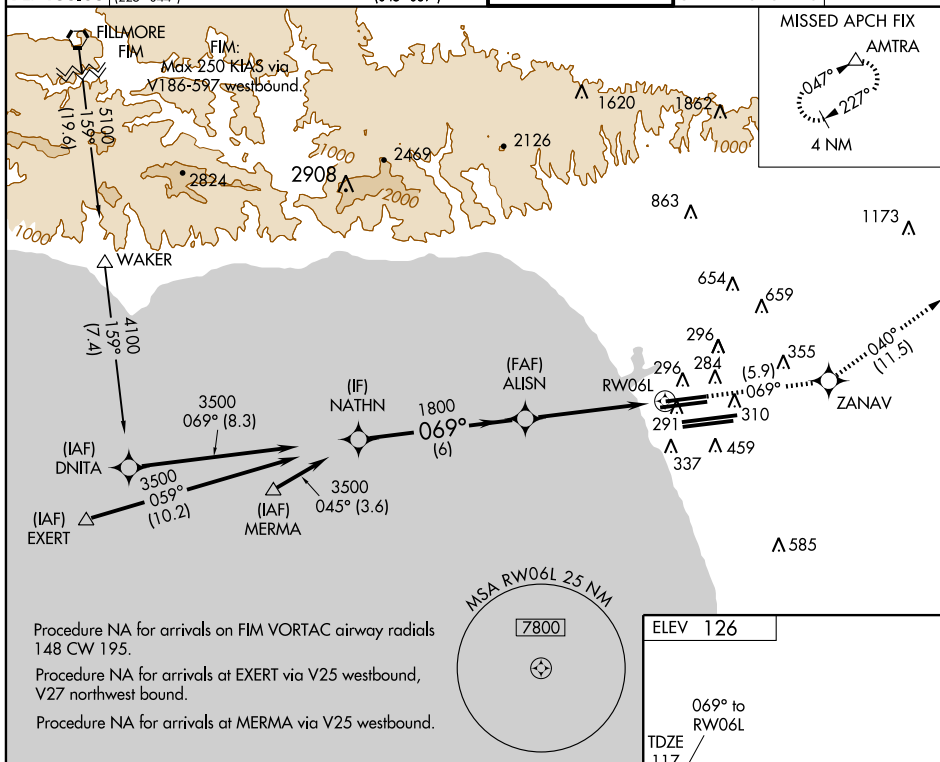
NA For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F), or above 48°C (119°F).
Inoperative table does not apply.
Visibility reduction by helicopters NA.

MALSR



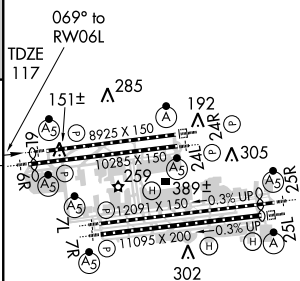
MISSED APPROACH: Climb to 3000 via 069° track to ZANAV and via 040° track to AMTRA and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	N 133.9 239.3	GND CON	N 121.65 327.0	CLNC DEL	121.4 327.0
ARR 133.8	124.5 235.975		128.5 360.7		S 120.95 379.1		S 121.75 327.0		
DEP 135.65	(225°-044°)		(090°-224°)						
			(045°-089°)						



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 126



TDZ/CL Rwy 6R, 7L, 24R, and 25L
HIRL all Rwy

RNAV (RNP) Z RWY 6R
LOS ANGELES INTL (LAX)

MALSR

MISSED APPROACH: Climb to 3000 via 069° track to ZIMLO and via 040° track to AMTRA and hold.

FILLMORE FIM

Mdx 250 KIA'S via
V186-597 westbound.

WAKER

(IAF) FILAR

(IAF) EXERT

MERMA

(IF) OTTES

(FAF) GUPPI

RW06R

ZIMLO

MISSD APCH FIX AMTRA

ELEV 126

Procedure NA for arrivals on FIM VORTAC airway radials 148 CW 195.
 Procedure NA for arrivals at EXERT via V25 westbound, V27 northwest bound.
 Procedure NA for arrivals at MERMA via V25 westbound.

Procedure Turn NA

OTIS

VGSI and RNAV glidepath not coincident

3000

069° trk

ZIMLO

040° trk

AMTRA

3500

069°

1800

GP 3.00°

TCH 43

1800

6 NM

5.1 NM

RW06R

CATEGORY	A	B	C	D
RNP 0.30	DA	413/40	299 (300-¾)	

069° to RW06R

151± Δ 285

192 Δ 241

8925 X 150

10285 X 150

259 Δ 305

389± Δ 302

11095 X 200

0.3% UP

0.3% UP

0.3% UP

TDZE 114

TDZE/CL Rwys 6R, 7L, 24R, and 25L

HIRL all Rwys

SW-3. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	12091
069°	TDZE	126
	Apt Elev	126

RNAV (RNP) Z RWY 7L

LOS ANGELES INTL (LAX)

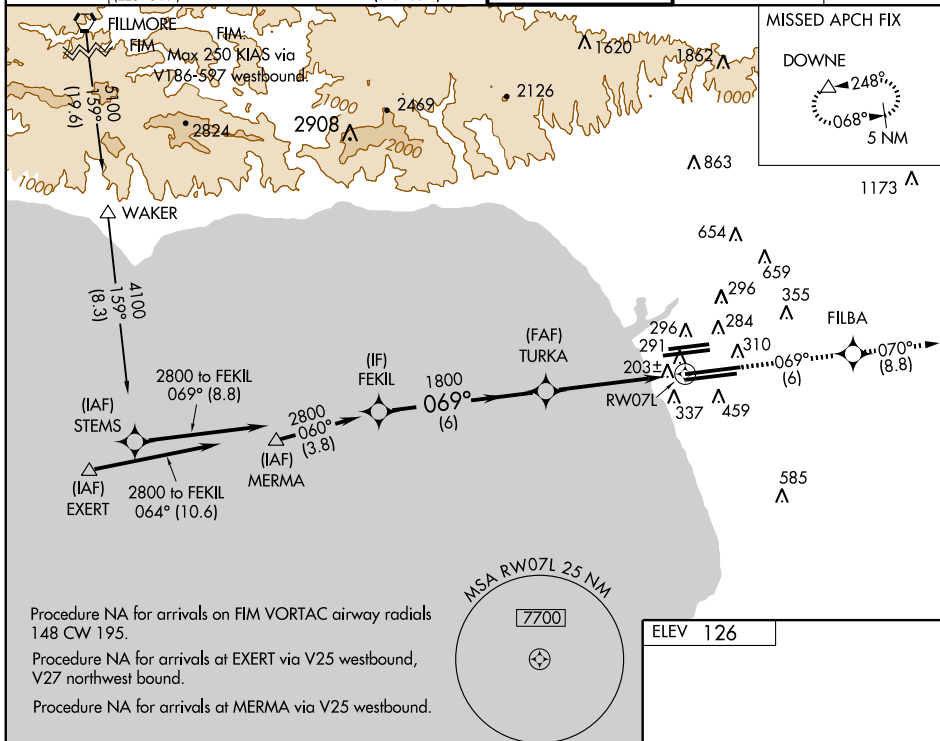
GPS required.
 For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F), or above 48°C (118°F).
 For inoperative MALSR, increase RNP 0.12 visibility to RVR 5000 and RNP 0.30 visibility to RVR 6000.

MALSR



MISSED APPROACH: Climb to 3000 via 069° track to FILBA and via 070° track to DOWNE and hold.

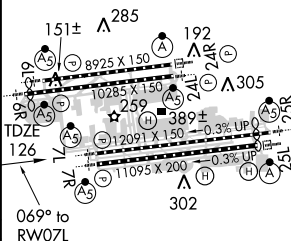
ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	N 133.9 239.3 S 120.95 379.1	GND CON	N 121.65 327.0 S 121.75 327.0	CLNC DEL	121.4 327.0
ARR 133.8	124.5 235.975 (225°-044°)		128.5 360.7 (045°-089°)						
DEP 135.65									



FEKIL	Procedure Turn NA	3000	FILBA	070° trk	DOWNE
2800	069°	1800	TURKA		
GP 3.00°					
TCH 59					
	6 NM	5 NM			
CATEGORY	A	B	C	D	
RNP 0.12 DA		440/24	314 (400-½)		
RNP 0.30 DA		483/40	357 (400-¾)		

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 126

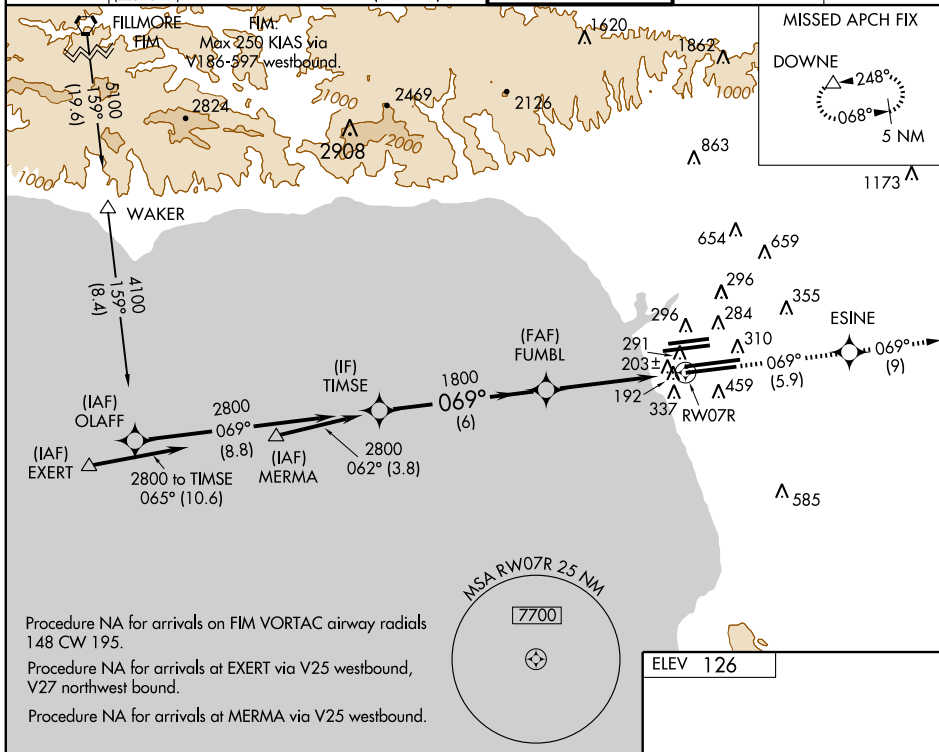


TDZ/CL Rwy 6R, 7L, 24R, and 25L
 HIRL all Rwy

RNAV (RNP) Z RWY 7R
LOS ANGELES INTL (LAX)

MISSED APPROACH: Climb to 3000 via 069° track to ESINE and 069° track to DOWNE and hold.

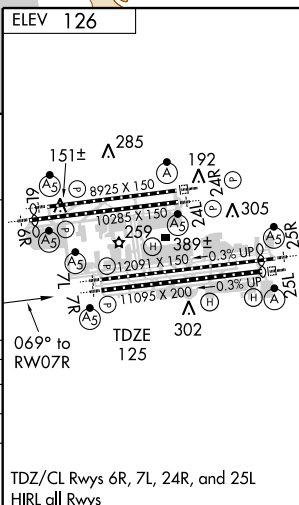
ATIS	124.3 363.2 (APCH FM WEST)	SOCAL APP CON	124.9 269.0 (090°-224°)	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	124.5 235.975 (225°-044°)		128.5 360.7 (045°-089°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65				S 120.95 379.1	S 121.75 327.0	121.4 327.0



SW-3. 14 JAN 2010 to 11 FEB 2010

Procedure		3000 ↑ 069° trk		ESINE ✦		069° trk		DOWNE △	
Turn	TIMSE								
2800									
GP 3.00° TCH 59									
CATEGORY		A	B	C	D				
RNP 0.12 DA		418/24		293 (300-½)					
RNP 0.30 DA		483/40		358 (400-¾)					

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**



RNAV (RNP) Z RWY 24L

LOS ANGELES INTL (LAX)

APP CRS	Rwy Idg	10285
249°	TDZE	121
	Apt Elev	126

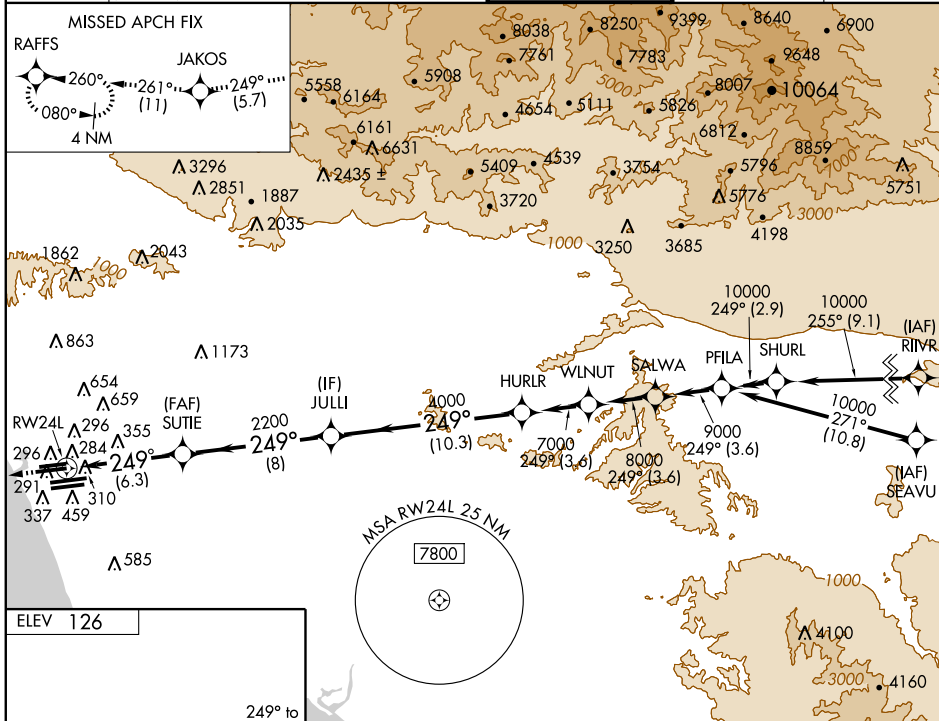
For inoperative MALSR, increase visibility RNP 0.15 and RNP 0.30 all Cats to 1½.
 For uncompensated Baro-VNAV systems, procedure NA below 5°C (40°F) or above 48°C (119°F).
 Visibility reduction by helicopters NA. GPS required.

MALSR

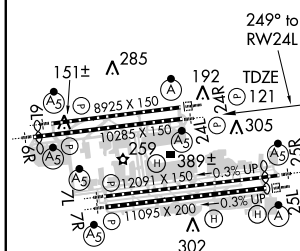


MISSED APPROACH: Climb to 2000
 via 249° track to JAKOS and
 via 261° track to RAFFS and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	[APCH FM WEST]		(090°-224°)	N 133.9 239.3	N 121.65 327.0	121.4 327.0
DEP 135.65	124.5 235.975		(045°-089°)	S 120.95 379.1	S 121.75 327.0	



ELEV 126



TDZ/CL Rwy 6R, 7L, 24R, and 25L
 HIRL all Rwy

SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED

RNAV (RNP) Z RWY 24R

LOS ANGELES INTL (LAX)

APP CRS	Rwy Idg	8925
249°	TDZE	120
	Apt Elev	126

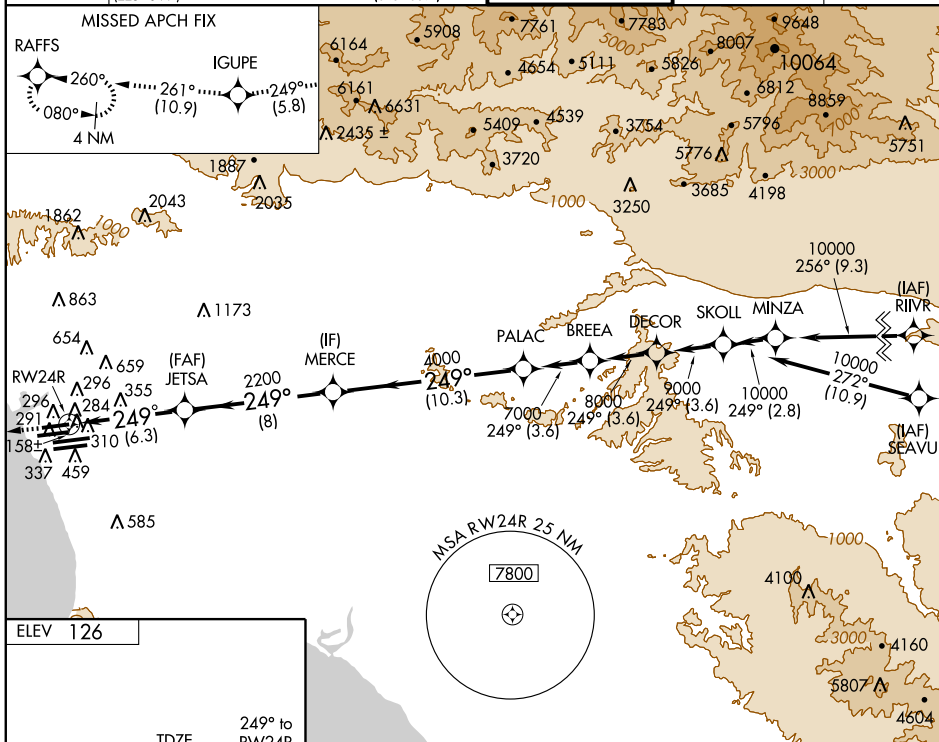
NA For uncompensated Baro-VNAV systems, procedure NA below 5°C (40°F) or above 48°C (119°F).
For inoperative ALSF-2 increase RNP 0.16 visibility to RVR 6000 and RNP 0.30 to 1½ miles.
GPS required. Visibility reduction by helicopters NA.

ALSF-2

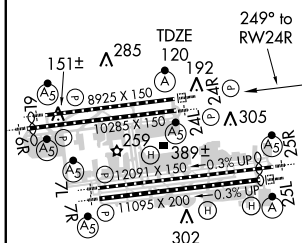


MISSED APPROACH: Climb to 2000 via 249° track to IGUPE and via 261° track to RAFFS and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER		GND CON		CLNC DEL	
ARR	133.8			N 133.9 239.3		N 121.65 327.0			
DEP	135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0		121.4 327.0	
		(225°-044°)		(090°-224°)					
				(045°-089°)					



ELEV 126



2000	IGUPE	261° trk	RAFFS	VGSI and RNAV glidepath not coincident.
249° trk				
	JETSA		MERCE	PALAC
	2200		4000	7000
				GP 3.00° TCH 59
	6.3 NM	8 NM	10.3 NM	
CATEGORY	A	B	C	D
RNP 0.16 DA		485/40	365 (400-¾)	
RNP 0.30 DA		584/60	464 (500-1 ¼)	

TDZ/CL Rwy's 6R, 7L, 24R, and 25L
HIRL all Rwy's

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

RNAV (RNP) Z RWY 25L

LOS ANGELES INTL (LAX)

APP CRS 249° Rwy Idg **11095**
TDZE 104
Apt Elev 126

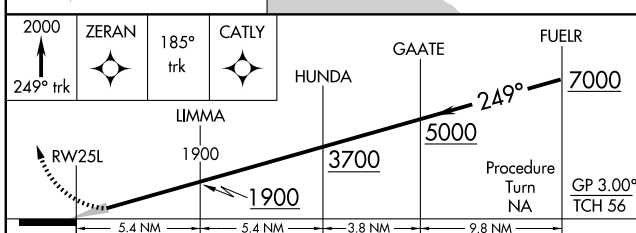
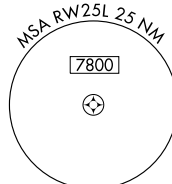
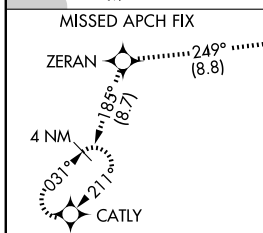
NA For uncompensated Baro-VNAV systems, procedure NA below 5°C (40°F), or above 48°C (118°F).
 For inoperative ALSF-2 increase visibility RNP 0.12 all Cats. to RVR 5000, RNP 0.17 all Cats. to RVR 6000, and increase RNP 0.30 all Cats. to 1½ mile. GPS required.

ALSF-2



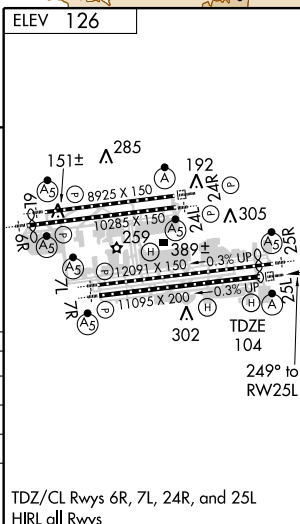
MISSED APPROACH: Climb to 2000
 via 249° track ZERAN and via 185°
 track to CATLY and hold.

ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



CATEGORY	A	B	C	D
RNP 0.12 DA	408/24	304 (300-½)		
RNP 0.17 DA	458/40	354 (400-¾)		
RNP 0.30 DA	538/50	434 (500-1)		

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



TDZ/CL Rwy 6R, 7L, 24R, and 25L
 HIRL all Rwy

RNAV (RNP) Z RWY 25R

LOS ANGELES INTL (LAX)

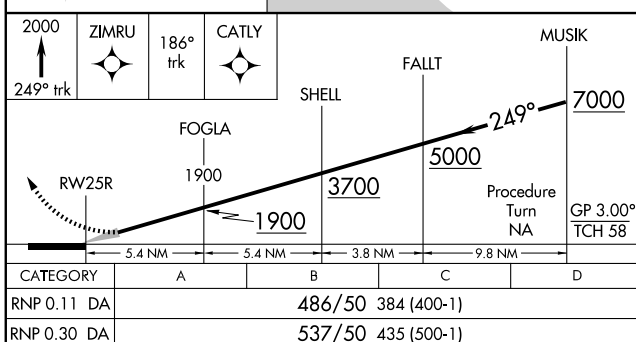
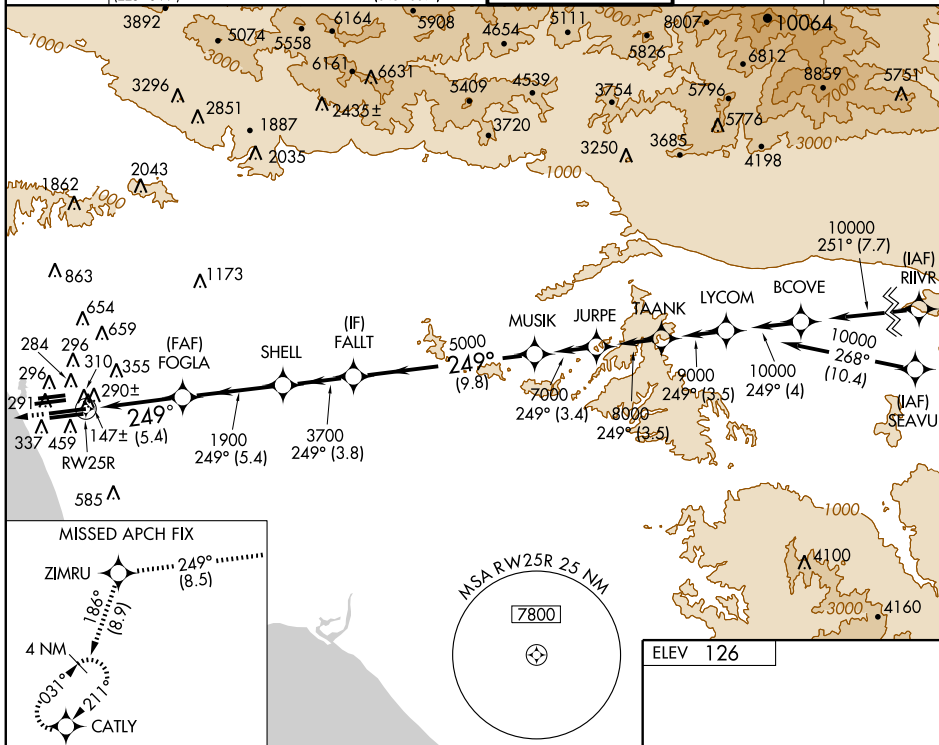
APP CRS	Rwy Idg	11134
249°	TDZE	102
	Apt Elev	126

NA For inoperative MALSR, increase visibility RNP 0.11 to RVR 6000 and RNP 0.30 to 1 1/2 .
For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 48°C (118°F). GPS required.

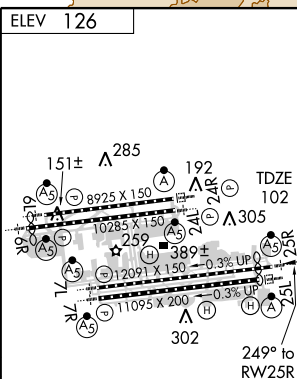


MISSED APPROACH: Climb to 2000 via 249° track to ZIMRU and via 186° track to CATLY and hold.

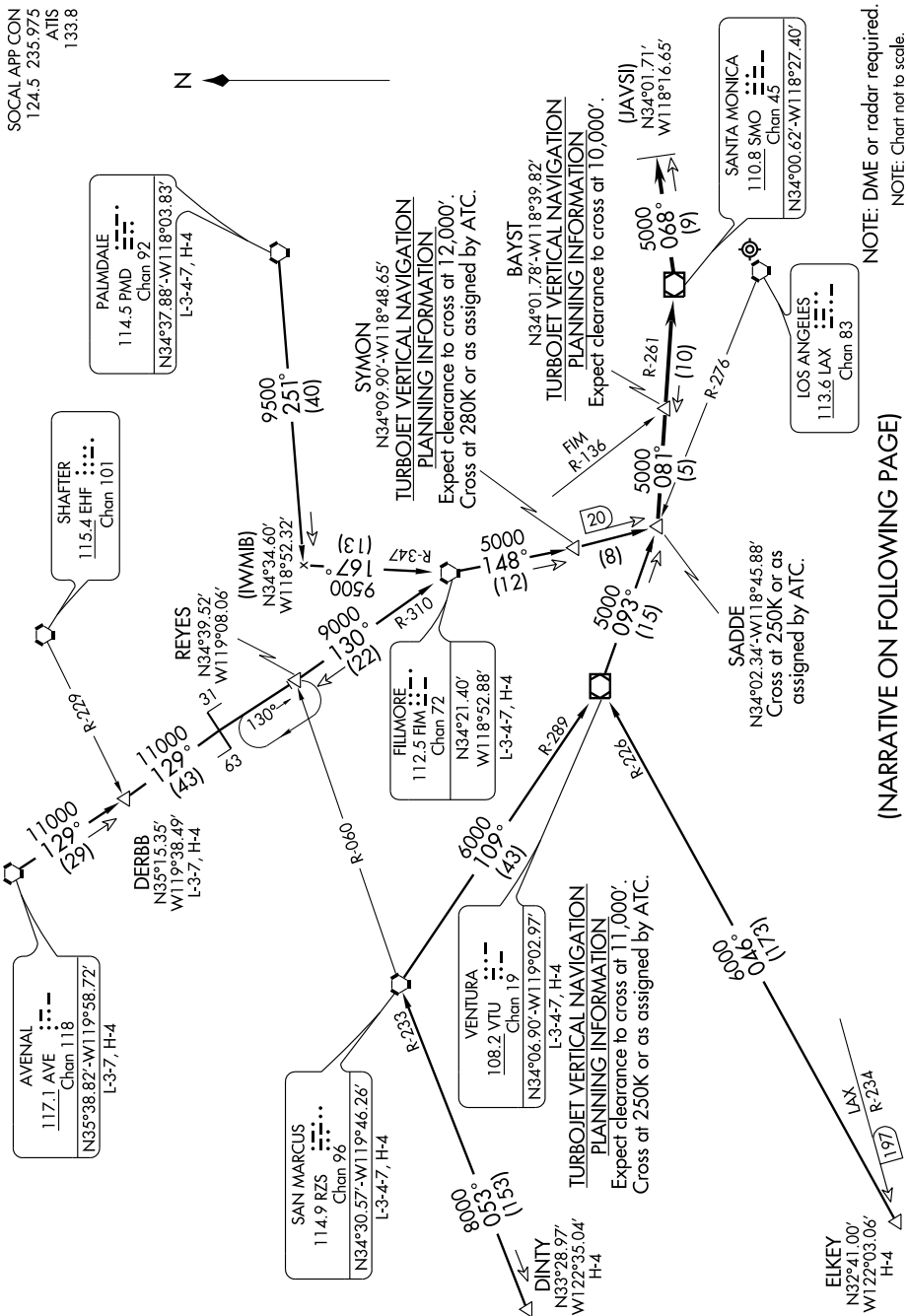
ATIS	124.3 363.2	SOCAL APP CON	124.9 269.0	LOS ANGELES TOWER	GND CON	CLNC DEL
ARR 133.8	(APCH FM WEST)		(090°-224°)	N 133.9 239.3	N 121.65 327.0	
DEP 135.65	124.5 235.975		128.5 360.7	S 120.95 379.1	S 121.75 327.0	121.4 327.0
	(225°-044°)		(045°-089°)			



**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**



TDZ/CL Rwy's 6R, 7L, 24R, and 25L
HIRL all Rwy's



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.SADDE6): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC, then via FIM R-148 to SADDE INT. Thence....

DERBB TRANSITION (DERBB.SADDE6): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC, then via FIM R-148 to SADDE INT. Thence....

DINTY TRANSITION (DINTY.SADDE6): From over DINTY INT via RZS R-233 to RZS VORTAC; then via RZS R-109 and VTU R-289 to VTU VOR/DME, and then via VTU R-093 to SADDE INT. Thence....

ELKEY TRANSITION (ELKEY.SADDE6): From over ELKEY INT via VTU R-226 to VTU VOR/DME then via VTU R-093 to SADDE INT. Thence....

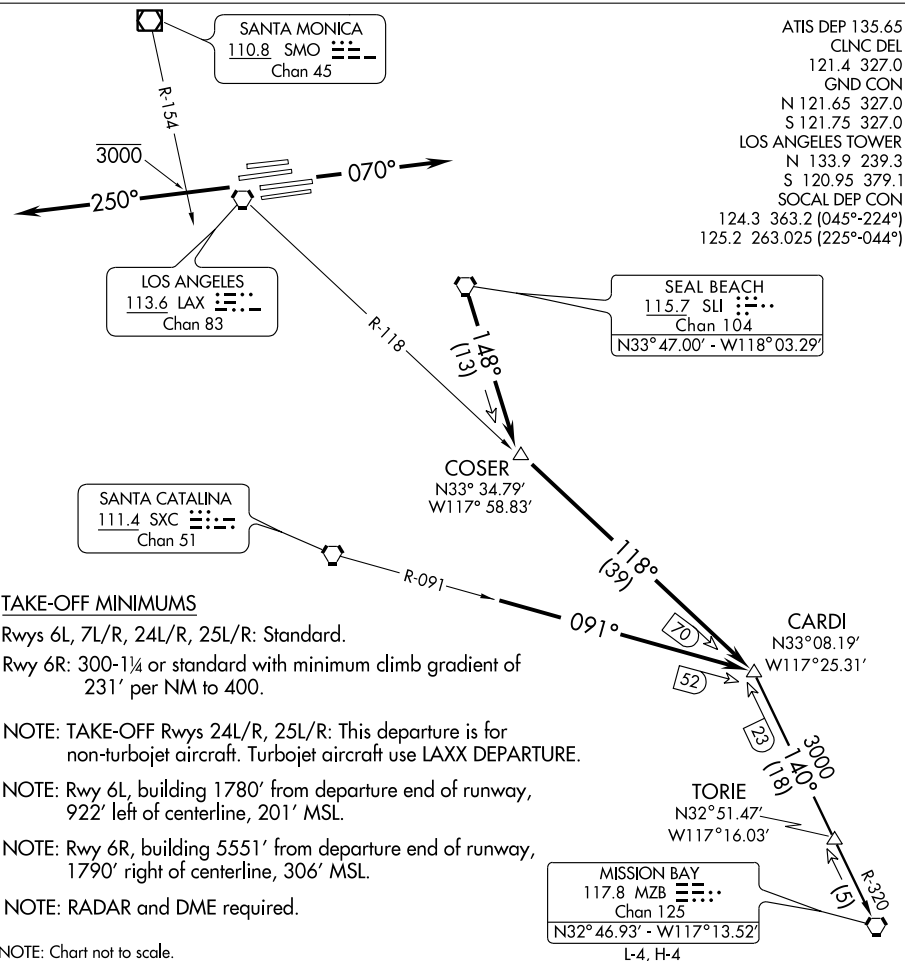
FILLMORE TRANSITION (FIM.SADDE6): From over FIM VORTAC via FIM R-148 to SADDE INT. Thence....

PALMDALE TRANSITION (PMD.SADDE6): From over PMD VORTAC via PMD R-251 and FIM R-347 to FIM VORTAC, then via FIM R-148 to SADDE INT. Thence....

SAN MARCUS TRANSITION (RZS.SADDE6): From over RZS VORTAC via RZS R-109 and VTU R-289 to VTU VOR/DME then via VTU R-093 to SADDE INT. Thence....

VENTURA TRANSITION (VTU.SADDE6): From over VTU VOR/DME via VTU R-093 to SADDE INT. Thence....

....From over SADDE INT via SMO R-261 to SMO VOR/DME, then via SMO R-068 to SMO 9 DME for Runways 24 and 25. From SMO 9 DME expect vector to final approach course for Los Angeles Intl Airport.



DEPARTURE ROUTE DESCRIPTION

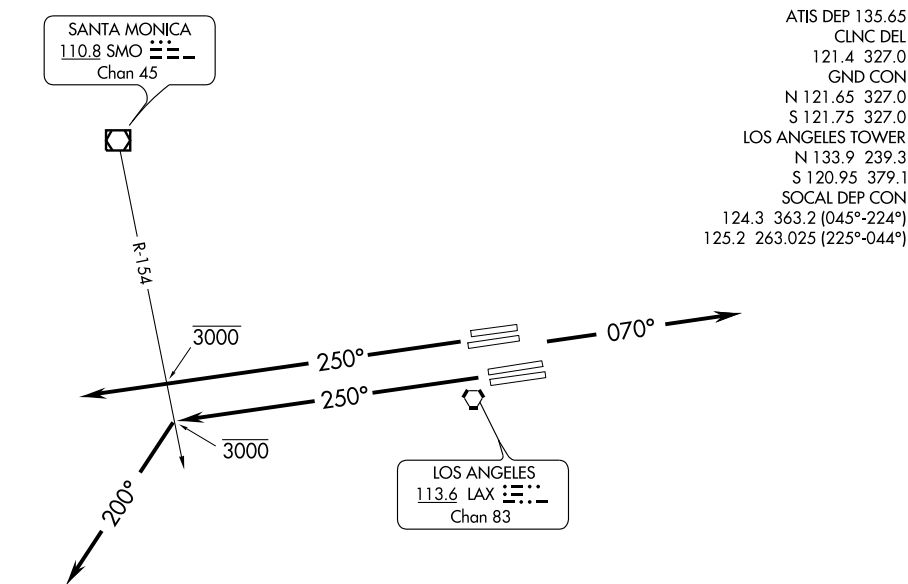
TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to SLI VORTAC, then via SLI R-148 to COSER DME fix then via LAX R-118 to CARDI INT. Thence....

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000, then via RADAR vector to join SXC R-091 to CARDI INT. Thence....

....via (assigned transition) or (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

MISSION BAY TRANSITION (SNGO5.MZB): From over CARDI INT via MZB R-320 to MZB VORTAC.

**TAKE-OFF MINIMUMS**

Rwys 6L, 7L/R, 24L/R, 25L/R: Standard.

Rwy 6R: 300-1¼ or standard with minimum climb of 231' per NM to 400.

NOTE: TAKE-OFF Rwys 24L/R, 25L/R: This departure is for non-turbojet aircraft. Turbojet aircraft use LAXX DEPARTURE.

NOTE: Rwys 25L/R, ATC minimum climb gradient of 410' per NM to 600' MSL required.

NOTE: Rwy 6R, building 5551' from departure end of runway, 1790' right of centerline, 306' MSL.

NOTE: Rwy 6L, building 1780' from departure end of runway, 922' left of centerline, 201' MSL.

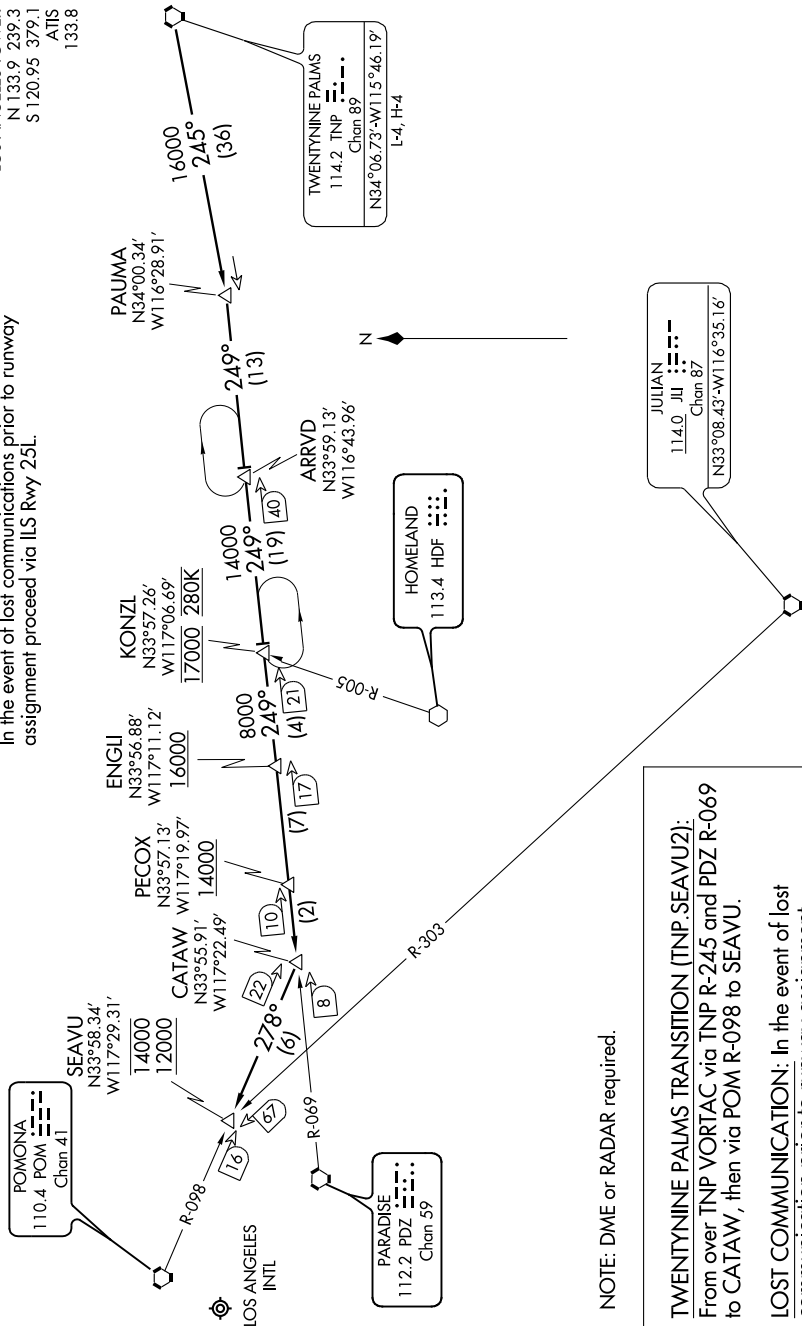
NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vector to SLI VORTAC. ThenceTAKE-OFF RUNWAYS 24L/R: Climb via heading 250° to cross SMO R-154 at or below 3000' then via radar vectors to SLI VORTAC. ThenceTAKE-OFF RUNWAYS 25L/R: Climb via heading 250° to cross SMO R-154 at or below 3000' then turn left heading 200° for vector to SLI VORTAC. Thence
.... via (assigned route). All aircraft expect further clearance to filed flight level three minutes after departure.LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

SEAVU TWO ARRIVAL

SOCAL APP CON
124.05 353.775
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
ATIS
133.8

NOTE: Expect runway assignment on initial contact with Southern California TRACON.
In the event of lost communications prior to runway assignment proceed via ILS Rwy 25L.



NOTE: DME or RADAR required.

TWENTYNINE PALMS TRANSITION (TNP.SEAVU2):

From over TNP VORTAC via TNP R-245 and PDZ R-069 to CATAW, then via POM R-098 to SEAVU.

LOST COMMUNICATION: In the event of lost communication prior to runway assignment proceed via ILS Rwy 25L.

NOTE: Chart not to scale.

SEBBY FOUR DEPARTURE

SL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS DEP 135.65
CLNC DEL
121.4 327.0
GND CON
N 121.65 327.0
S 121.75 327.0
LOS ANGELES TOWER
N 133.9 239.3
S 120.95 379.1
SOCAL DEP CON
124.3 363.2 (045°-224°)
125.2 263.025 (225°-044°)

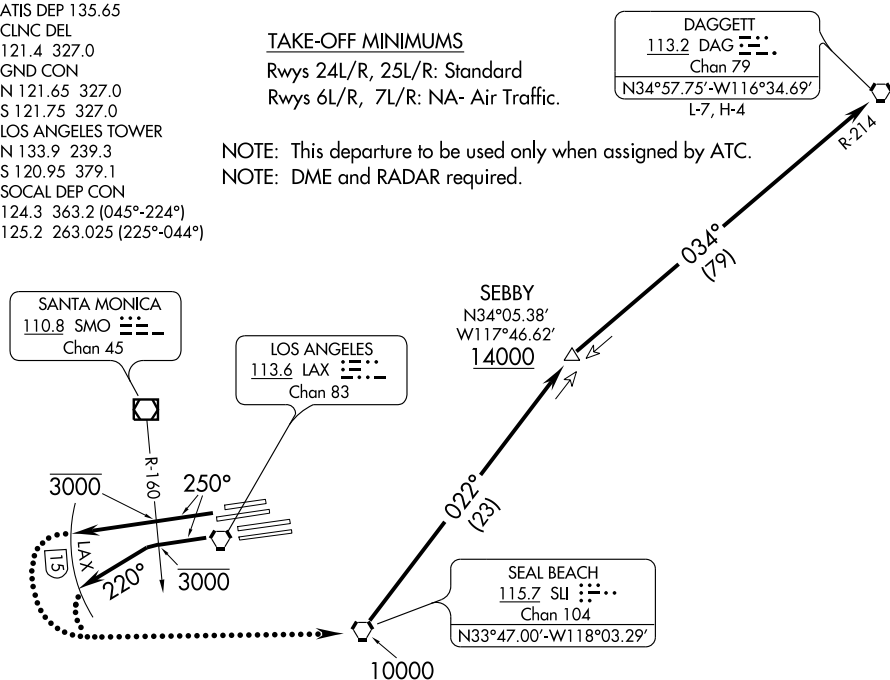
TAKE-OFF MINIMUMS

Rwys 24L/R, 25L/R: Standard

Rwys 6L/R, 7L/R: NA- Air Traffic.

NOTE: This departure to be used only when assigned by ATC.

NOTE: DME and RADAR required.

TAKE-OFF OBSTACLE NOTES

Rwy 24L: Bush 962' from DER, 601' left of centerline, 29' AGL/148' MSL.

Antenna on pole 1357' from DER, 287' right of centerline, 25' AGL/144' MSL.

Rwy 24R: OL on glideslope 213' from DER, 400' left of centerline, 34' AGL/151' MSL.

Rwy 25L: Pole 2366' from DER, 820' left of centerline, 55' AGL/184' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

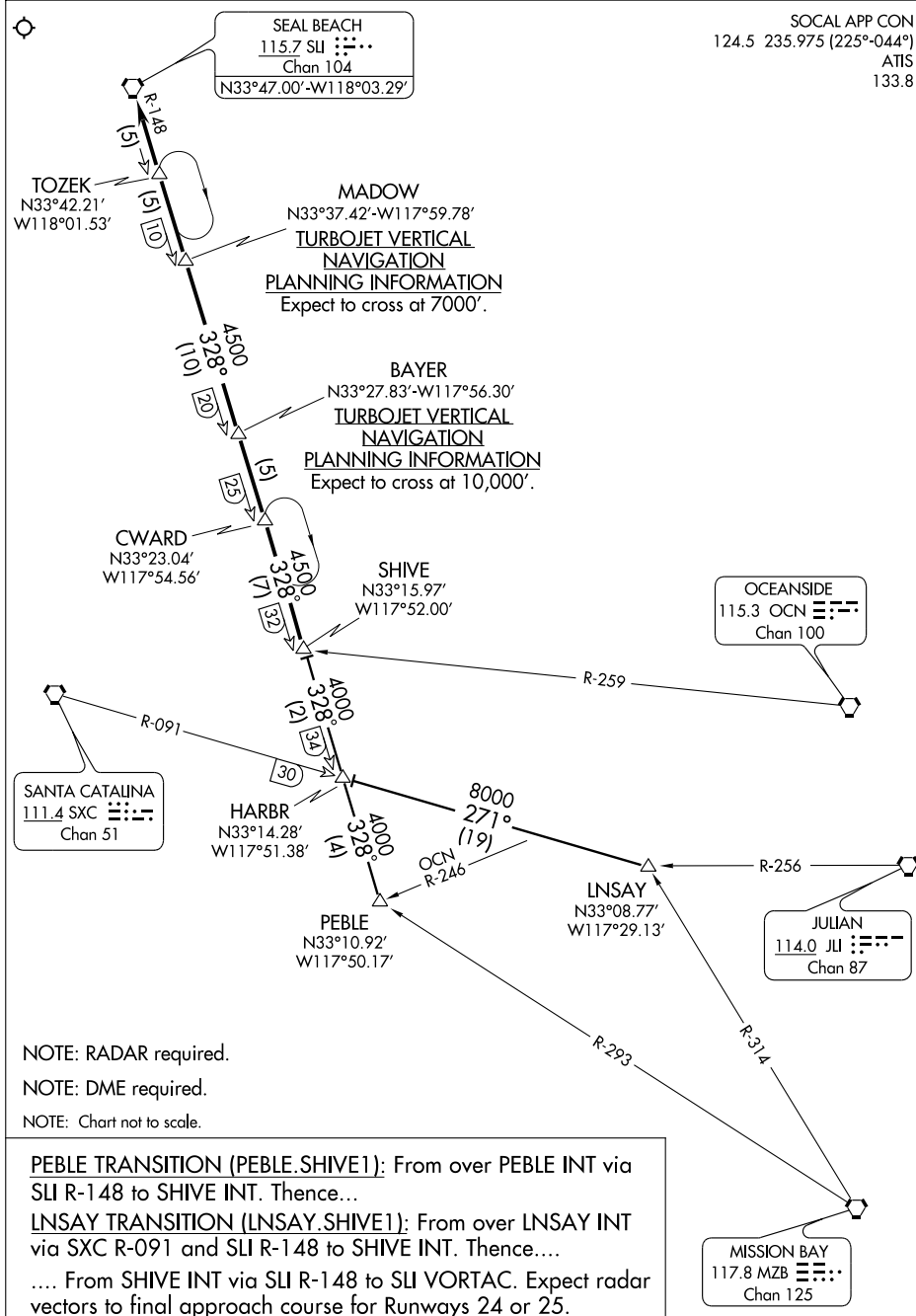
TAKE-OFF RUNWAYS 24L/R: Climb via heading 250°, cross SMO R-160 at or below 3000, Thence....TAKE-OFF RUNWAYS 25L/R: Climb via heading 250°, cross SMO R-160 at or below 3000, then turn left via heading 220°, Thence....

....via radar vectors to cross SLI VORTAC at or above 10000, then via SLI R-022 to cross SEBBY at or above 14000, then turn right via DAG R-214 to DAG VORTAC, expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by 15 DME west of LAX VORTAC, turn left direct SLI VORTAC and proceed on assigned route, climb to FL230 or filed altitude whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

SHIVE ONE ARRIVAL

ST-237 (FAA)

LOS ANGELES INTL
LOS ANGELES, CALIFORNIASOCAL APP CON
124.5 235.975 (225°-044°)
ATIS
133.8

STADIUM VISUAL RWY 24L/R

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA

ATIS ARR 133.8

DEP 135.65

SOCAL APP CON

124.5 235.975

LOS ANGELES TOWER

N 133.9 239.3

S 120.95 379.1

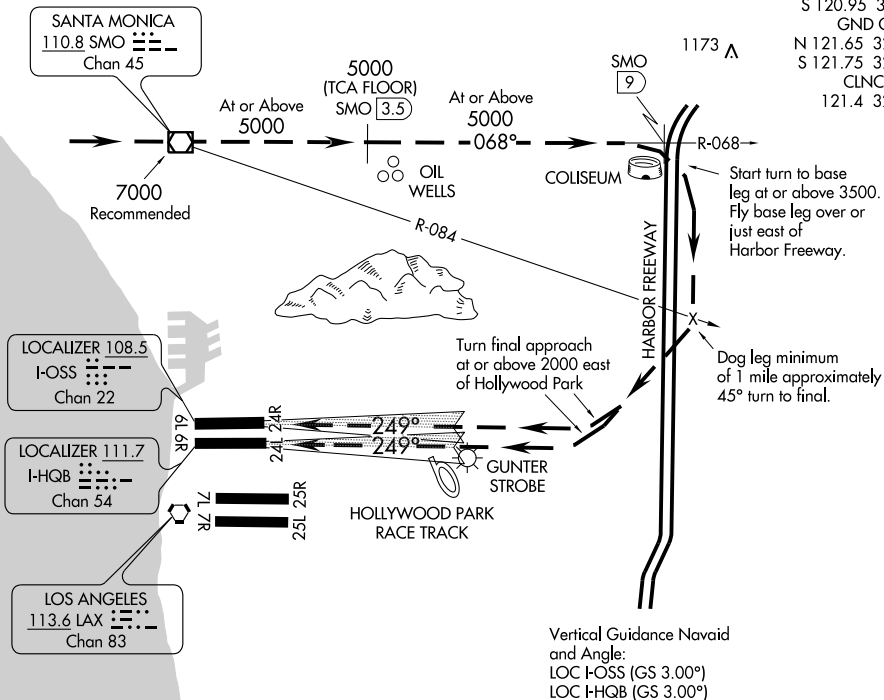
GND CON

N 121.65 327.0

S 121.75 327.0

CLNC DEL

121.4 327.0



RADAR REQUIRED

Weather minimums: 3000 feet ceiling and 3 miles visibility.

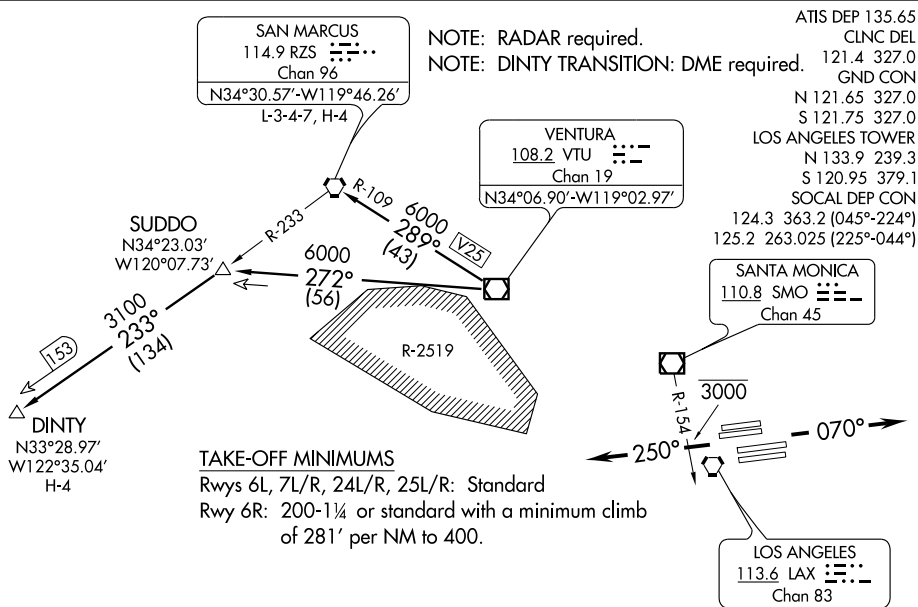
CHART NOT TO SCALE

STADIUM VISUAL APPROACH

When visual approaches to Runways 24L/R are in progress, clearances to aircraft from the north and northwest will be given utilizing the following phraseology:

"(IDENT) CLEARED FOR STADIUM VISUAL RUNWAY 24 LEFT/RIGHT APPROACH."

A descent profile of approximately 3° starting at 7000 over SMO VOR/DME may be made with reference to the minimum altitudes above.



TAKE-OFF OBSTACLE NOTES

Rwy 6L: Multiple signs and building beginning 1693' from DER, 340' left of centerline, up to 91' AGL/201' MSL.

Rwy 6R: OL on sign 1867' from DER, 941' left of centerline, 52' AGL/161' MSL.

Multiple towers and windsock beginning 4930' from DER, 1734' right of centerline, up to 207' AGL/306' MSL.

Rwy 7L: Multiple blast fences, signs, and antennas beginning 168' from DER, on centerline to 1858' from DER, 576' left of centerline, up to 58' AGL/147' MSL.

Railroad 275' from DER, up to 23' AGL/117' MSL.

Bush 962' from DER, 601' left of centerline, 29' A

Antenna on pole 1357' from DER, 287' right of centerline, 25' A

: OL on glideslope 213' from DER, 400' left of centerline, 34' AGL/151' MSL.

Rwy 25L: Pole 2366' from DER, 820' left of centerline, 55' AGL/184' MSL.

NOTE: Chart not scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6L/R, 7L/R: Climb via heading 070° for vectors to VTU VOR/DME.
Thence...

TAKE-OFF RUNWAYS 24L/R, 25L/R: Climb via heading 250° for vectors to VTU VOR/DME, cross SMO R-154 at or below 3000. Thence. . .

... via (assigned transition) or (assigned route). Expect further clearance to filed flight level three minutes after departure.

LOST COMMUNICATIONS: If not in contact with Departure Control within five minutes after departure, climb to FL230 or filed altitude, whichever is lower. Aircraft filing FL240 or above climb to filed altitude ten minutes after departure.

DINTY TRANSITION (VTU5.DINTY): From over VTU VOR/DME via VTU R-272 and RZS R-233 to DINTY INT.

SAN MARCUS TRANSITION (VTU5.RZS): From over VTU VOR/DME via VTU R-289 and RZS R-109 to RZS VORTAC.

NOTE: RADAR Required.
NOTE: DME Required.
NOTE: Chart not to scale.

AIRPORT DIAGRAM

AL-9132 (FAA)

LOS ANGELES/WHITEMAN (WHP)
LOS ANGELES, CALIFORNIA

ATIS
132.1
WHITEMAN TOWER ★
135.0
GND CON
125.0

D

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

FIELD
ELEV
1003

125.5°

HANGARS

FBO

4120 X 75

TWR

HANGARS

ADMINISTRATION

1.0% UP

305.5°

ELEV
960

RWY 12-30
S12.5

VAR 13.3°E

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

118°25.0'W

118°24.5'W

SW-3, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	N/A
110°	TDZE	N/A
	Apt Elev	1003

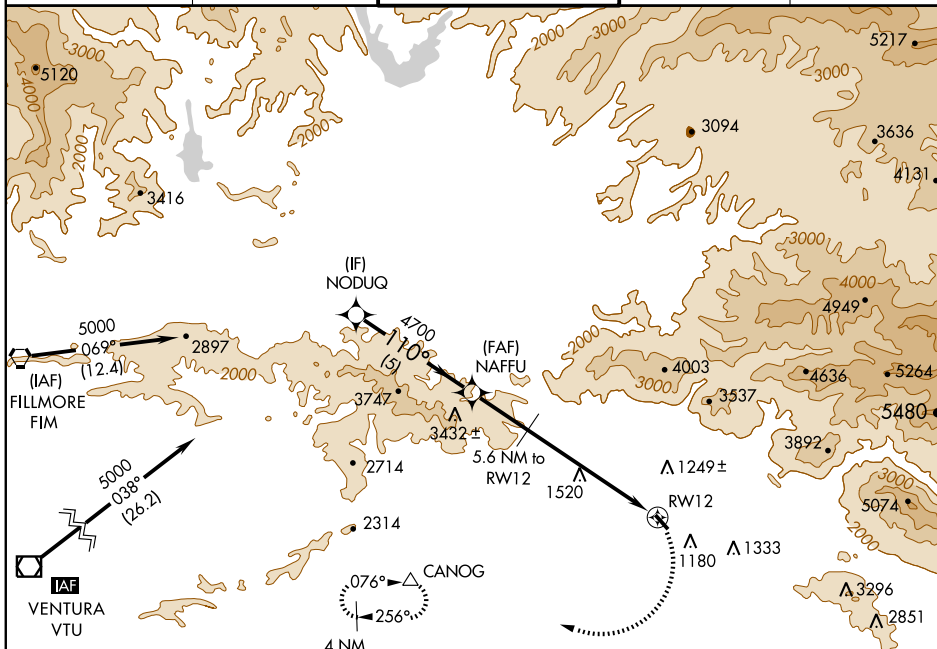
RNAV (GPS)-C

LOS ANGELES/WHITEMAN (WHP)

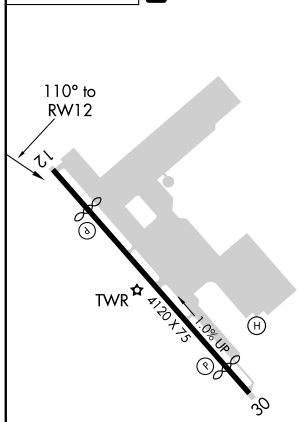
T When control tower closed, use Burbank altimeter setting.
A **NA** **IAF** ARM APPROACH MODE PRIOR TO IAF.
 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 4000 direct CANOG and hold.

ATIS 132.1	SOCAL APP CON 134.2 338.2	WHITEMAN TOWER ★ 135.0 (CTAF)	GND CON 125.0	UNICOM 122.95
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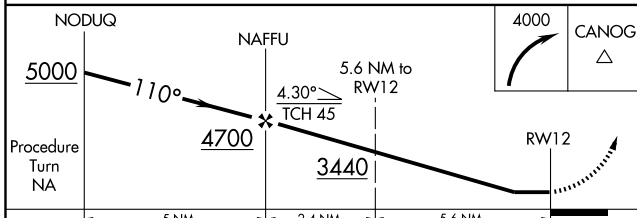
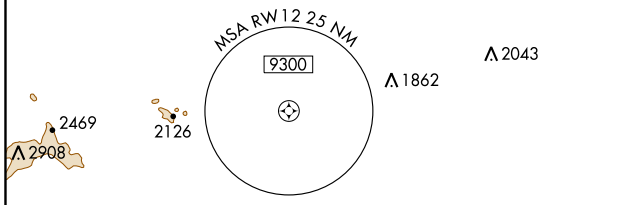


ELEV 1003	D
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REIL Rwy 12 and 30

MIRL Rwy 12-30



CATEGORY	A	B	C	D
CIRCLING	1900-1¼	897 (900-1¼)	1900-2¾ 897 (900-2¾)	NA

VOR/DME VNY <u>113.1</u> Chan 78	APP CRS 046°	Rwy Idg TDZE Apt Elev	N/A N/A 1003
--	------------------------	-----------------------------	---

VOR-A

LOS ANGELES/WHITEMAN (WHP)

T When control tower closed, use Burbank altimeter setting.

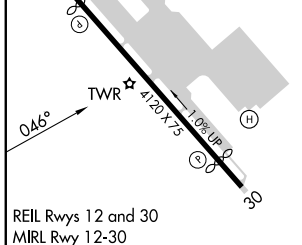
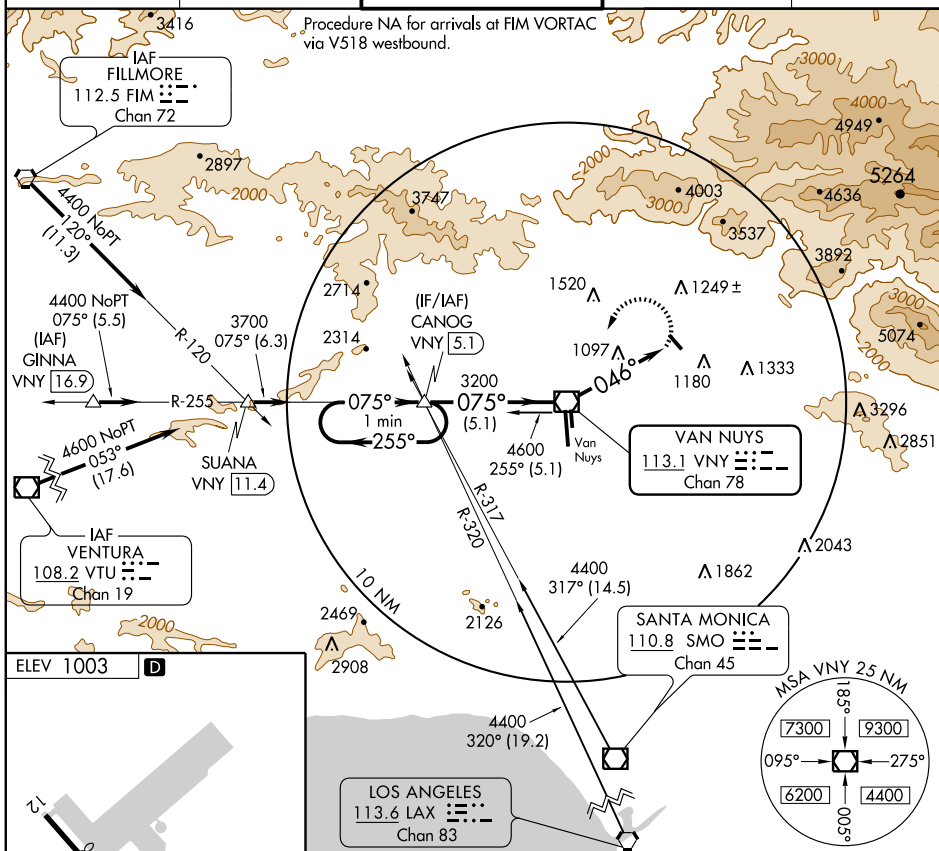
MISSED APPROACH: Climbing left turn to 3700 direct VNY VOR/DME then via VNY VOR/DME R-255 to CANOG INT/VNY 5.1 DME and hold.

ATIS
132.1

SOCAL APP CON
134.2 338.2

WHITEMAN TOWER ★
135.0 (CTAF)

GND CON
125.0

UNICOM
122.95

One Minute Holding Pattern	CANOG INT VNY <u>5.1</u>	3700 	VNY  <u>113.1</u>	VNY R-255	CANOG 
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FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

CATEGORY	A	B	C	D
CIRCLING	1840-1 837 (900-1)	1840-1¼ 837 (900-1¼)	1840-2½ 837 (900-2½)	NA

WAAS CH 53715 W14A	APP CRS 137°	Rwy Idg TDZE Apt Elev	3801 121 121
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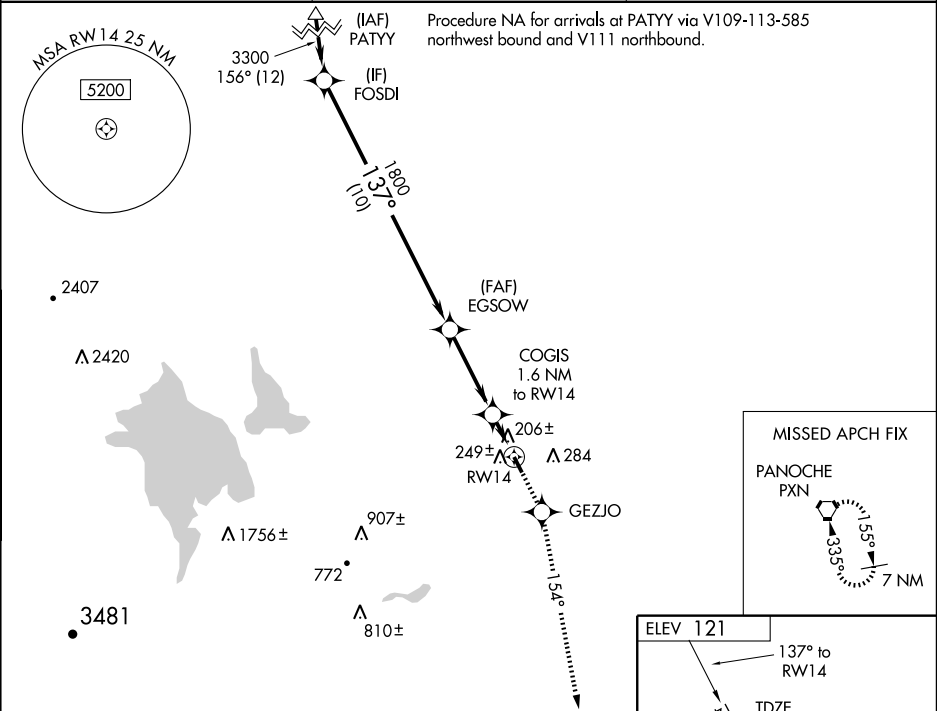
RNAV (GPS) RWY 14

LOS BANOS MUNI (LSN)

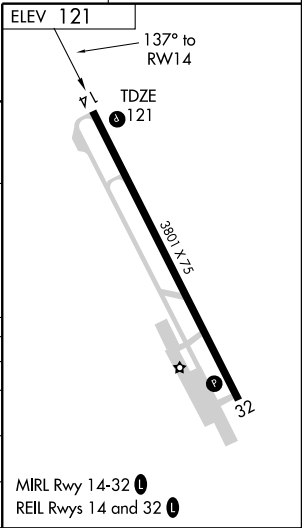
Baro-VNAV NA when using Merced Rgnl/Macready Field altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all DA/MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climb to 6500 direct GEZJO and via track 154° to PXN VORTAC and hold, continue climb-in-hold to 6500.

AWOS-3 118.675	NORCAL APP CON 120.95 269.45	UNICOM 122.8 (CTAF) 0
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	FOSDI	EGSOW	6500	GEZJO	trk 154°	PXN
	3300	1800	COGIS 1.6 NM to RW14			
	Procedure Turn NA	GS 3.00° TCH 30°	*660	RW14		
	10 NM	3.5 NM	1.6			
CATEGORY	A	B	C	D		
LPV DA	455-1¼ 334 (400-1¼)					
LNAV/VNAV DA	519-1½ 398 (400-1½)					
LNAV MDA	520-1 399 (400-1)				520-1¼ 399 (400-1¼)	
CIRCLING	640-1 519 (600-1)		640-1½ 519 (600-1½)		680-2 559 (600-2)	



APP CRS	Rwy Idg	3801
317°	TDZE	121
	Apt Elev	121

RNAV (GPS) RWY 32

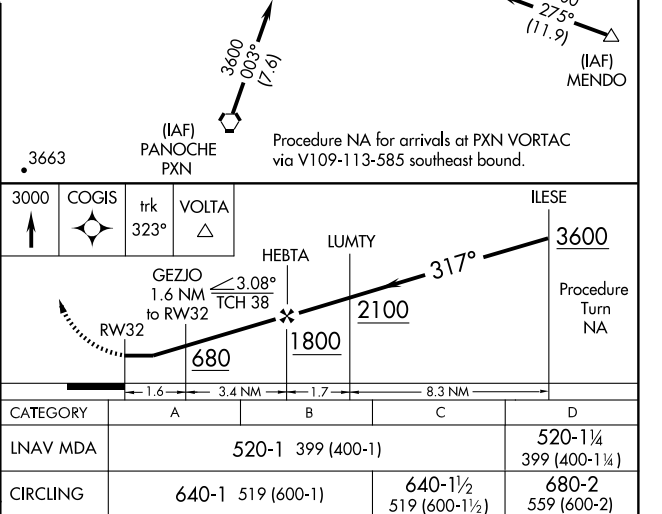
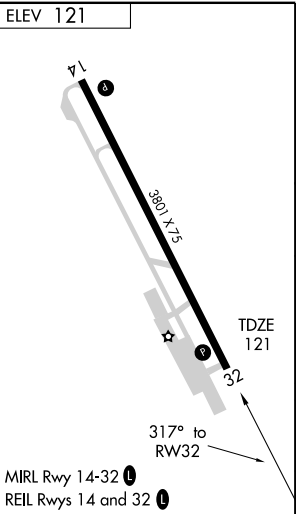
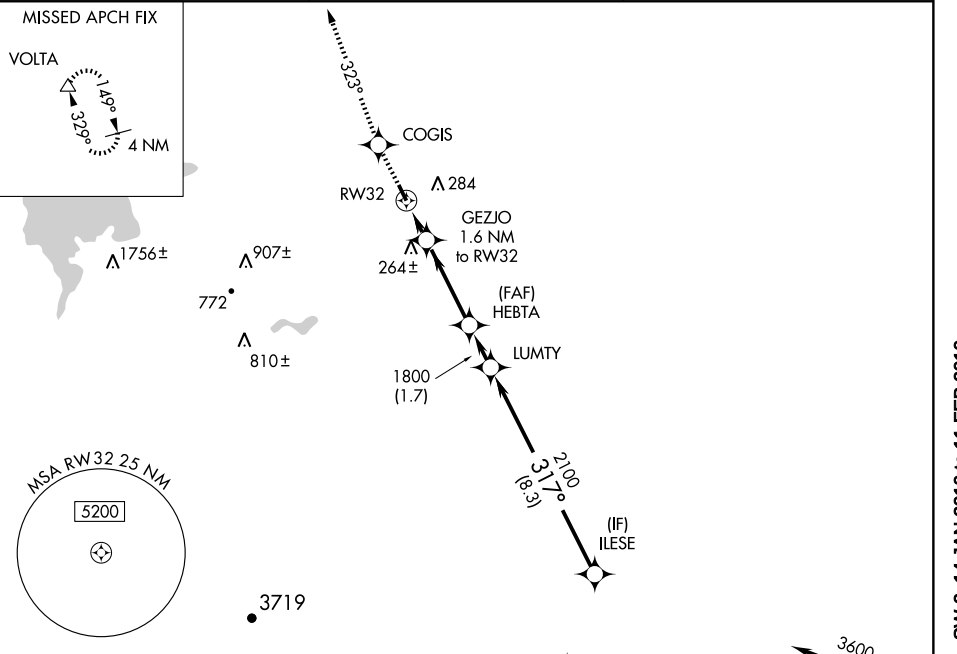
LOS BANOS MUNI (LSN)

NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Merced Rgnl/Macready Field atimeter setting and increase all MDA 60 feet. Increase all visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct COGIS and via track 323° to VOLTA and hold.

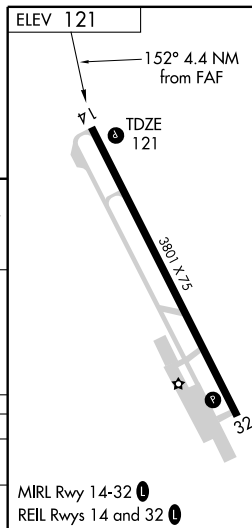
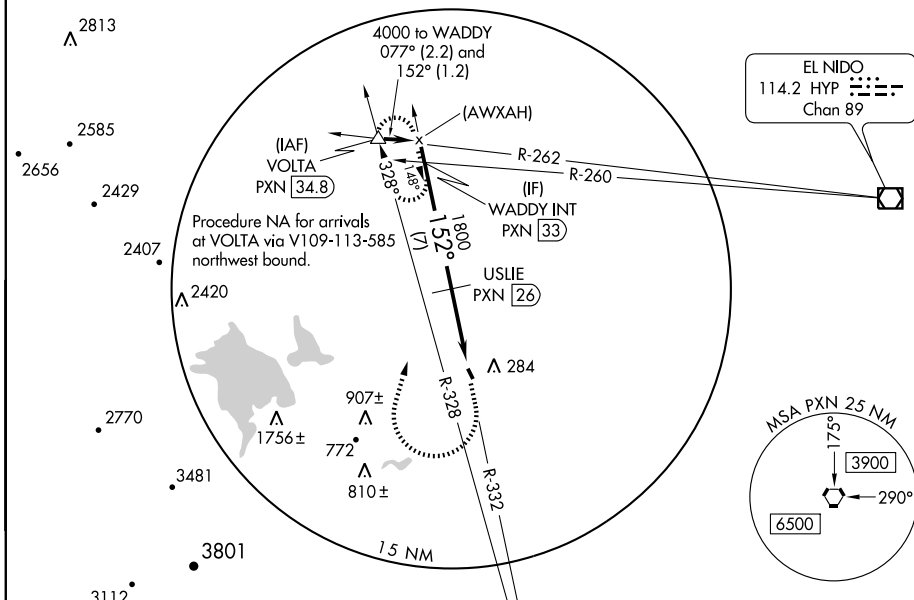
AWOS-3 118.675	NORCAL APP CON 120.95 269.45	UNICOM 122.8 (CTAF) 0
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SW-2, 14 JAN 2010 to 11 FEB 2010

VOR/DME RWY 14
LOS BANOS MUNI (LSN)

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 via heading 360° and PXN VORTAC R-328 to VOLTA INT/PXN 34.8 DME and hold.

UNICOM
122.8 (CTAF) **L**

VOR/DME RWY 32
LOS BANOS MUNI (LSN)

MISSED APPROACH: Climbing left turn to 5000 via heading 295° and PXN VORTAC R-328 to VOLTA INT/PXN 34.8 DME and hold.

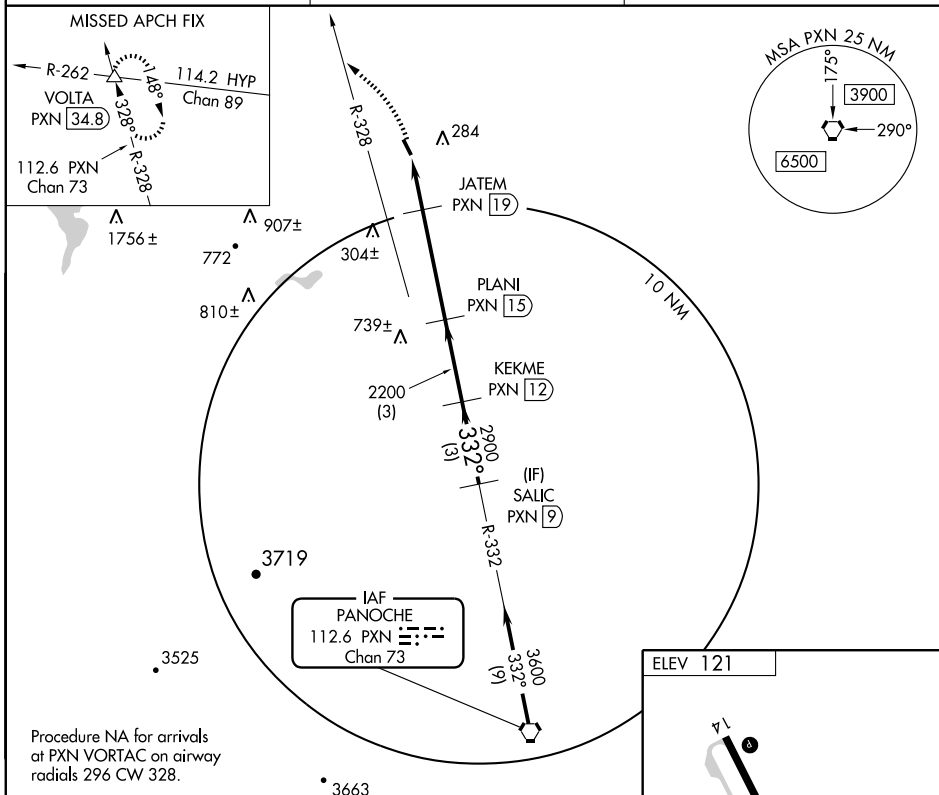
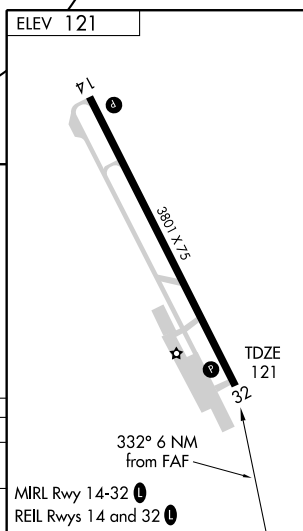
UNICOM
122.8 (CTAF) **L**

Figure 1-1: Sample Instrument Departure Procedure. The diagram illustrates a flight path starting from a runway, heading 295 degrees, and passing through several waypoints: PXN 21, JATEM PXN 19, PLANI PXN 15, KEKME PXN 12, and SALIC PXN 9. The path includes a climb to 820 feet, a turn to 332 degrees, and a climb to 3600 feet. A procedure turn is indicated as 'NA' (Not Applicable).

CATEGORY	A	B	C	D
S-32	580-1 459 (500-1)	580-1¼ 459 (500-1¼)	580-1½ 459 (500-1½)	580-1¾ 459 (500-1¾)
CIRCLING	640-1 519 (600-1)	640-1¼ 519 (600-1¼)	640-1½ 519 (600-1½)	680-2 559 (600-2)



WAAS
CH 62909
W12A

APP CRS
119°

Rwy Idg
TDZE 253
Apt Elev 255

DME/DME RNP- 0.3 NA. Circling NA to Rwy 7/25.
Baro-VNAV NA when using Fresno Yosemite Intl altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).
When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all DA 64 feet and all visibilities ¼ mile; increase all MDA 80 feet and all visibilities ¼ mile.
VDP NA when using Fresno Yosemite Intl altimeter setting.

MISSED APPROACH: Climb to 2000 direct HATXI and via 087° track to CZQ VORTAC and hold.

ASOS 134.725	FRESNO APP CON 119.45	UNICOM 122.8 (CTAF) 0
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The diagram illustrates the RNP approach for RWY 12 at Madera Muni. The path starts at the Initial Approach Fix (IAF) UYOKA, descends to 2000 feet (8.8 NM), then to 1900 feet (11.9 NM) at IDAYI (IF). From IDAYI, the path continues to 1900 feet (11.9 NM) at FOSAB (FAF), then to 299 feet at RWY 12. A missed approach procedure is shown: climb to 2000 feet, then follow a 087° track to CZQ VORTAC (4 NM), then a 127° track to HATXI (1.6 NM), and finally a 307° track to RWY 12 (1.6 NM). A 730± foot obstacle is noted near the missed approach climb.

This inset diagram shows the airport layout with RWY 12 and RWY 7/25. The tower is located near RWY 12. The diagram also shows the 3545 X 150 foot runway dimensions and the 30° heading for RWY 12.

Procedure		IDAYI	FOSAB	2000	HATXI	087° track	CZQ
Turn NA		2000	1900	1900	1900	1900	1900
GS 3.00°		6 NM	3.4 NM	1.6 NM	1.6 NM	1.6 NM	1.6 NM
TCH 34							
CATEGORY		A	B	C	D		
LPV DA		503-1	250 (300-1)			NA	
LNAV/VNAV DA		569-1¼	316 (400-1¼)			NA	
LNAV MDA		800-1	547 (600-1)	800-1½	547 (600-1½)	NA	
CIRCLING		800-1	545 (600-1)	800-1½	545 (600-1½)	NA	

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 90209 W30A	APP CRS 299°	Rwy Idg TDZE 255 Apt Elev 255
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DME/DME RNP-0.3 NA. Circling NA to Rwy 7/25.
Baro-VNAV NA when using Fresno Yosemite Intl altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).
When local altimeter setting not received, use Fresno Yosemite Intl altimeter setting and increase all DA 64 feet and all visibilities ¼ mile; increase all MDA 80 feet and all visibilities ¼ mile.
VDP NA when using Fresno Yosemite Intl altimeter setting.

MALSF

MISSED APPROACH: Climb to 2100 direct ZEMDA and via 023° track to UPICU and hold.

ASOS 134.725	FRESNO APP CON 119.45	UNICOM 122.8 (CTAF) 1
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2100	ZEMDA	023° track	UPICU	GEVRY	Procedure Turn NA
*LNAV only		*1.6 NM to RW30	HATXI	1900	2000
RW30		1.6	3.4 NM	6 NM	GS 3.00° TCH 34
CATEGORY	A	B	C	D	
LPV DA	505-1 250 (300-1)			NA	
LNAV/VNAV DA	584-1¼ 329 (400-1¼)			NA	
LNAV MDA	800-1 545 (600-1)		800-1½ 545 (600-1½)	NA	
CIRCLING	800-1 545 (600-1)		800-1½ 545 (600-1½)	NA	

SW-2, 14 JAN 2010 to 11 FEB 2010

VOR RWY 30
MADERA MUNI (MAE)

VORTAC CZQ	APP CRS	Rwy Idg	5545
112.9	277°	TDZE	253
Chan 76		Apt Elev	253

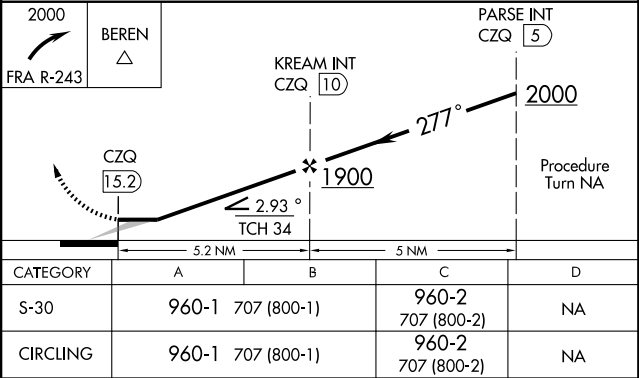
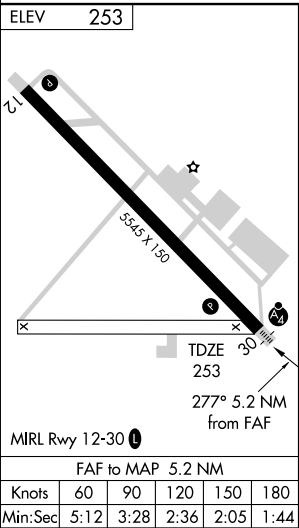
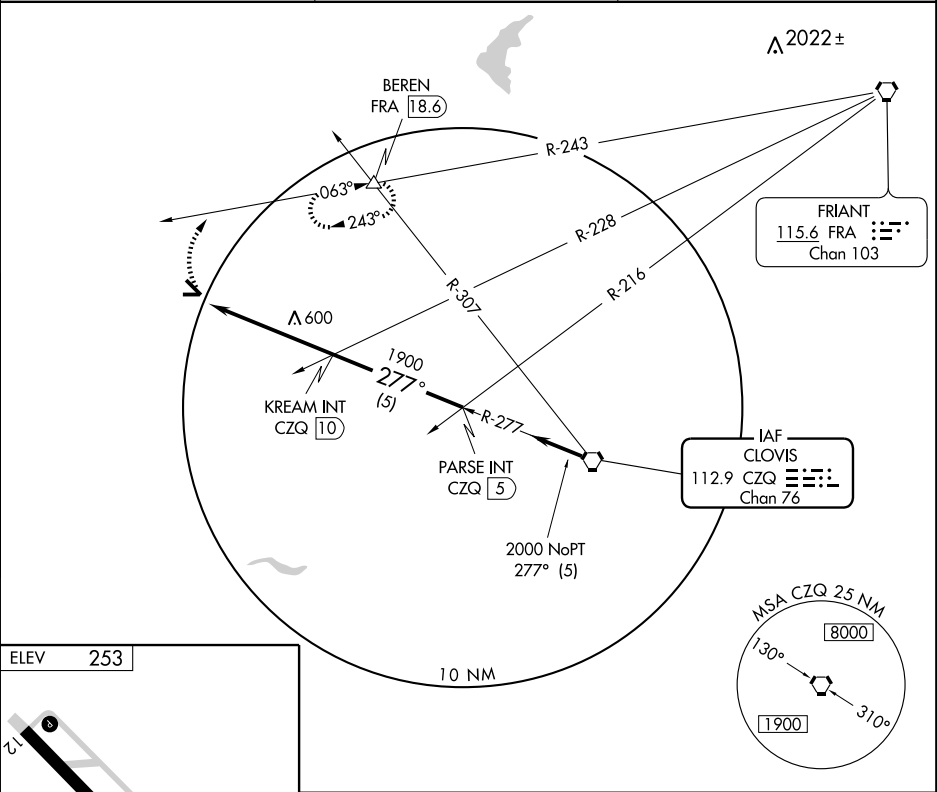
NA

Circling to Rwy 7-25 not authorized.

MALSF

MISSED APPROACH: Climbing right turn to 2000 via FRA R-243 to BEREN Int/FRA 18.6 DME and hold.

ASOS 134.725	FRESNO APP CON 119.45	UNICOM 122.8 (CTAF) 1
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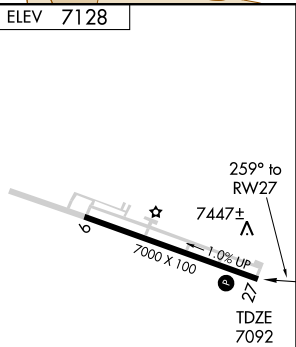
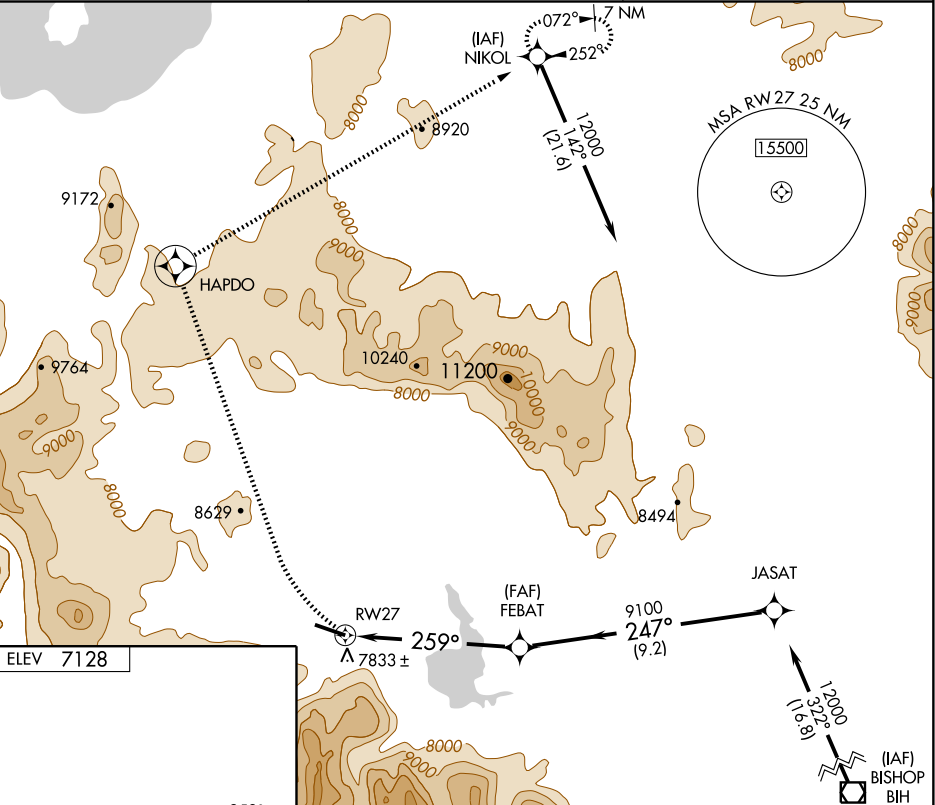
APP CRS	Rwy Idg	7000
259°	TDZE	7092
	Apt Elev	7128

RNAV (GPS) RWY 27

MAMMOTH YOSEMITE (MMH)

 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 12000 direct HAPDO WP then direct NIKOL WP and hold.
 Circling NA south of Rwy 9-27.	
 Circling NA at night.	

AWOS-3 118.05	OAKLAND CENTER 125.75 284.65	UNICOM 122.8 (CTAF) 
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12000	HAPDO	NIKOL	VGSI and descent angles not coincident	JASAT
				
			FEBAT	
				12000
				Procedure Turn NA

CATEGORY	A	B	C	D
LNAV MDA	8380-1¼ 1288 (1300-1¼)	8380-1½ 1288 (1300-1½)	8380-3 1288 (1300-3)	NA
CIRCLING	8380-1¼ 1252 (1300-1¼)	8380-1½ 1252 (1300-1½)	8380-3 1252 (1300-3)	NA

REIL Rwy 27 
MIRL Rwy 9-27 

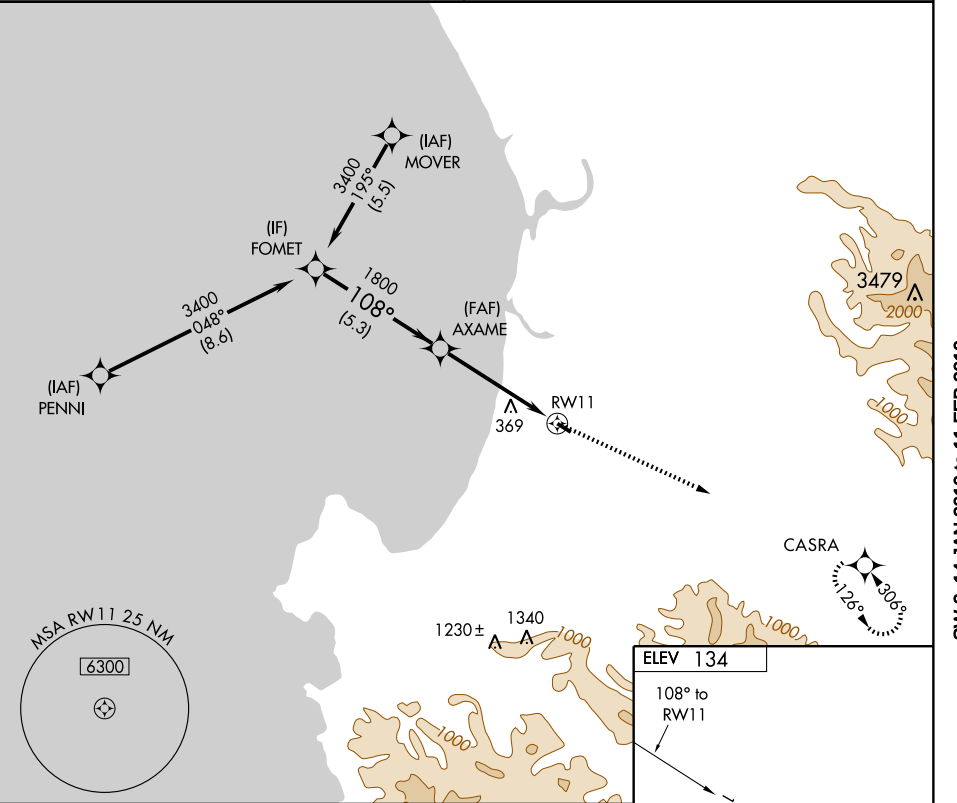
Use Monterey altimeter setting.

GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 direct CASRA WP and hold.

NORCAL APP CON
133.0 251.15

UNICOM
122.7 (CTAF)



FOMET

3400

Procedure Turn NA

AXAME

1800

6000

CASRA

108°

3.05° TCH 40

RW11

5.3 NM

5 NM

TDZE 134

3483 X 75

287 ☆

CATEGORY	A	B	C	D
RNAV MDA	720-1	586 (600-1)	NA	
CIRCLING	720-1	586 (600-1)	NA	

MIRL Rwy 11-29

SW-2, 14 JAN 2010 to 11 FEB 2010

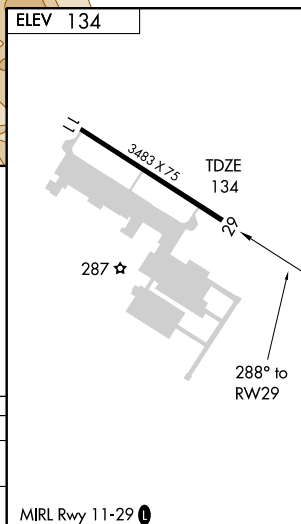
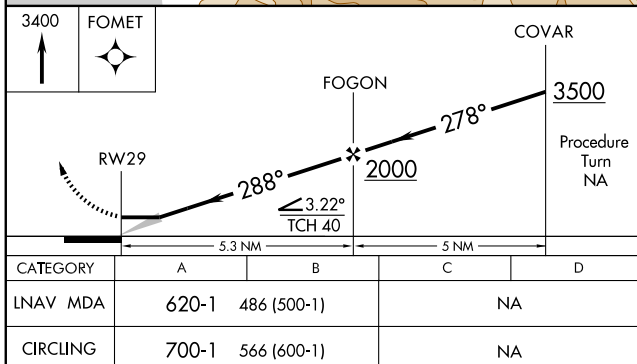
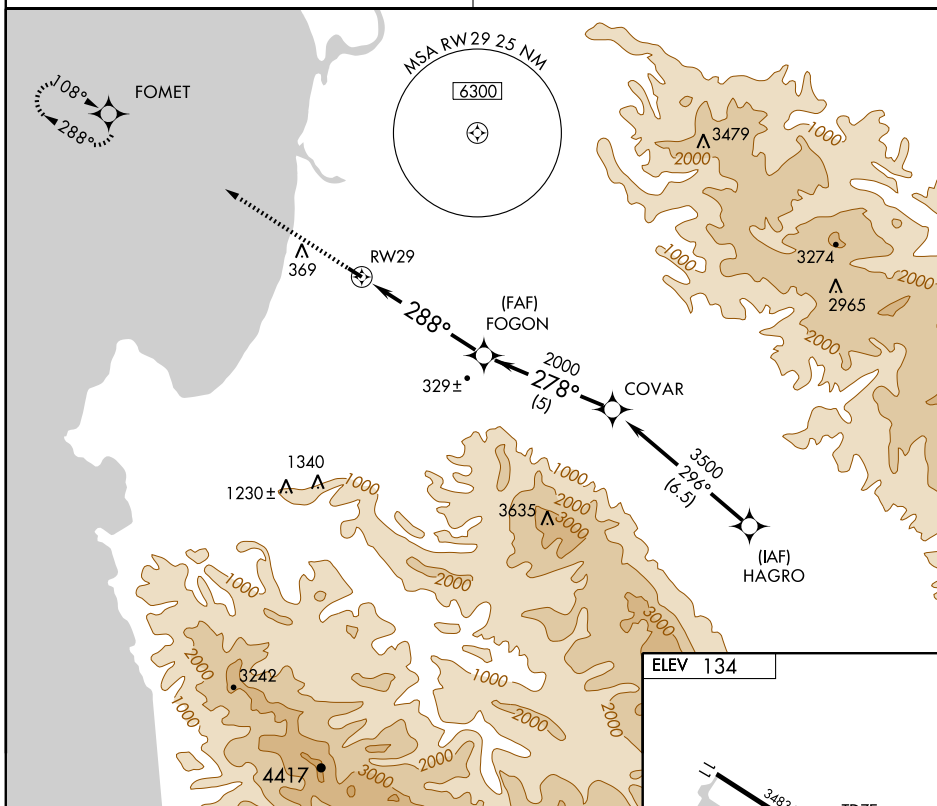
APP CRS 288°	Rwy Idg TDZE Apt Elev	3483 134 134
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RNAV (GPS) RWY 29

T Use Monterey altimeter setting.
A NA GPS or RNP-0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3400 direct FOMET WP and hold.

NORCAL APP CON
133.0 251.15

UNICOM
122.7 (CTAF) **L**

VORTAC SNS <u>117.3</u> Chan 120	APP CRS 260°	Rwy Idg 3483 TDZE 134 Apt Elev 134
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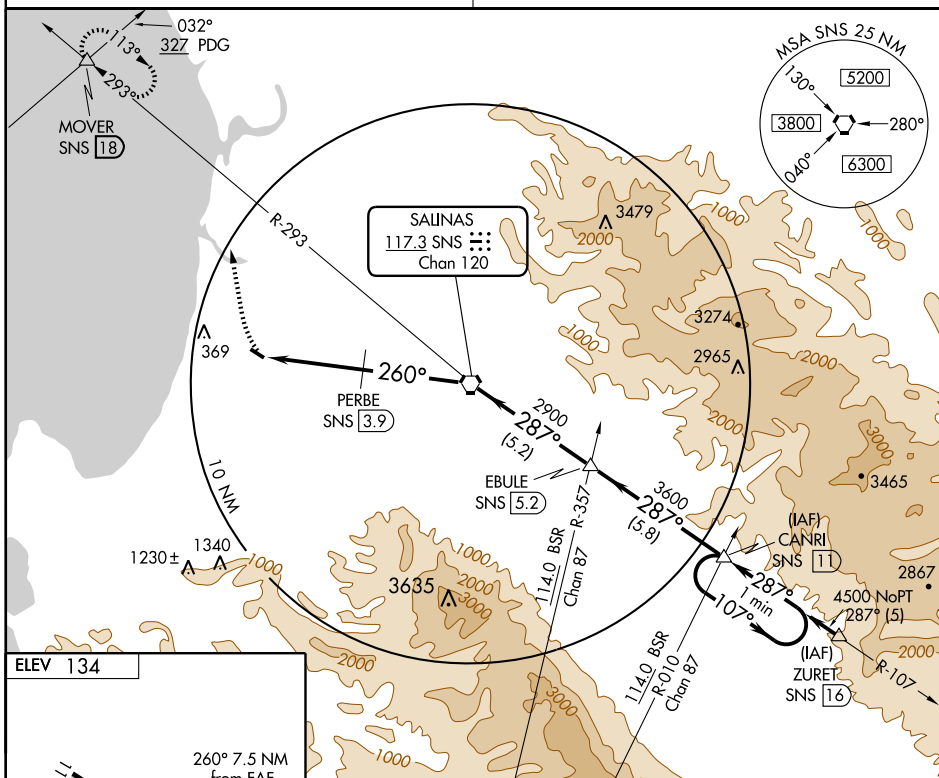
VOR/DME RWY 29
MARINA MUNI (OAR)

T
A NA Use Monterey altimeter setting.

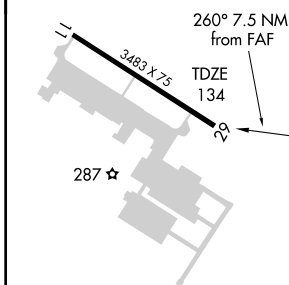
MISSED APPROACH: Climbing right turn to 3000 via heading 332° and SNS R-293 to MOVER INT/SNS 18 DME and hold.

NORCAL APP CON
133.0 251.15

UN|COM
122.7 (CTAF) **L**



ELEV 134

MIRL Rwy 11-29 **L**

Knots	60	90	120	150	180
Min:Sec					

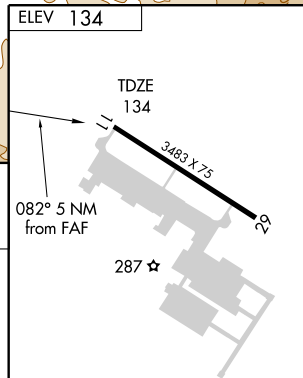
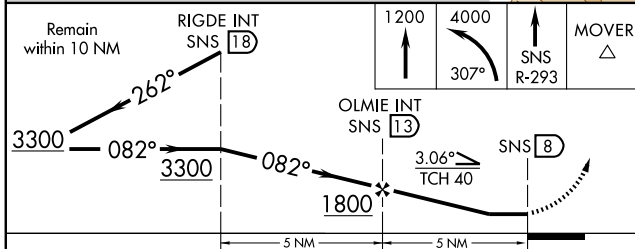
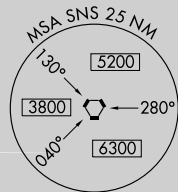
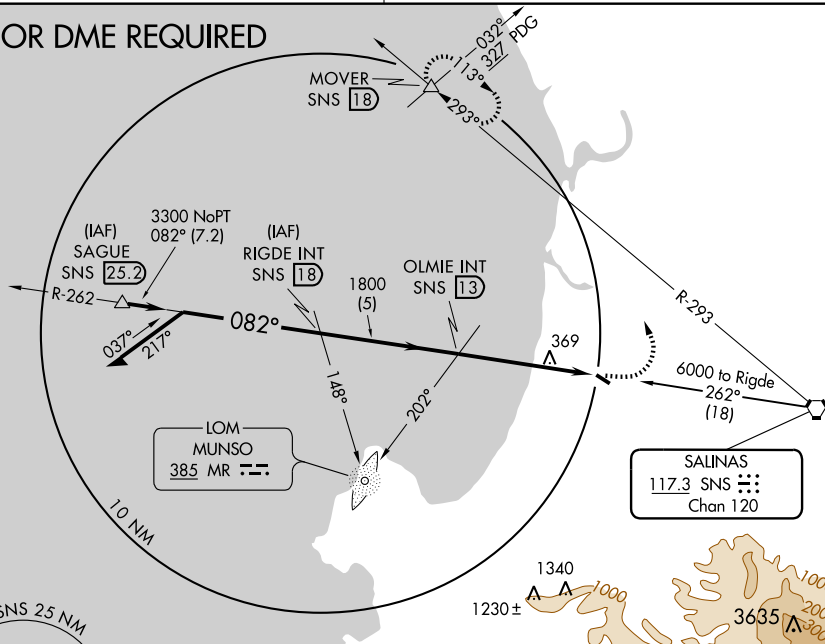
3000 332°	SNS R-293	MOVER △	EBULE INT SNS <u>5.2</u> CANRI INT SNS <u>11</u>		
SNS <u>7.5</u> 3.43° TCH 40° 1500	PERBE SNS <u>3.9</u> 260°	VORTAC 2900	287° 3600	107° → 4500 ← 287° One Minute Holding Pattern	
3.6 NM		3.9 NM	5.2 NM	5.8 NM	
CATEGORY	A	B	C	D	
S-29	660-1 526 (600-1)		NA		
CIRCLING	680-1 546 (600-1)	720-1 586 (600-1)	NA		

MARINA MUNI (OAR)

MISSED APPROACH: Climb to 1200, then climbing left turn to 4000 via heading 307° and SNS R-293 to MOVER Int/SNS 18 DME and hold.

UNICOM
122.7 (CTAF) **L**

ADF OR DME REQUIRED

MIRL Rwy 11-29 **L**

FAF to MAP 5 NM

CATEGORY	A	B	C	D	MIRL Rwy 11-29 					
S-11	720-1	586 (600-1)	NA		FAF to MAP 5 NM					
CIRCLING	720-1	586 (600-1)	NA		Knots	60	90	120	150	180
					Min:Sec	5:00	3:20	2:30	2:00	1:40

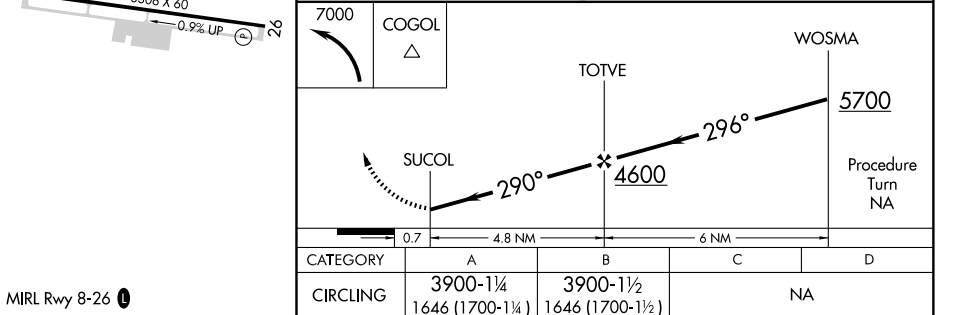
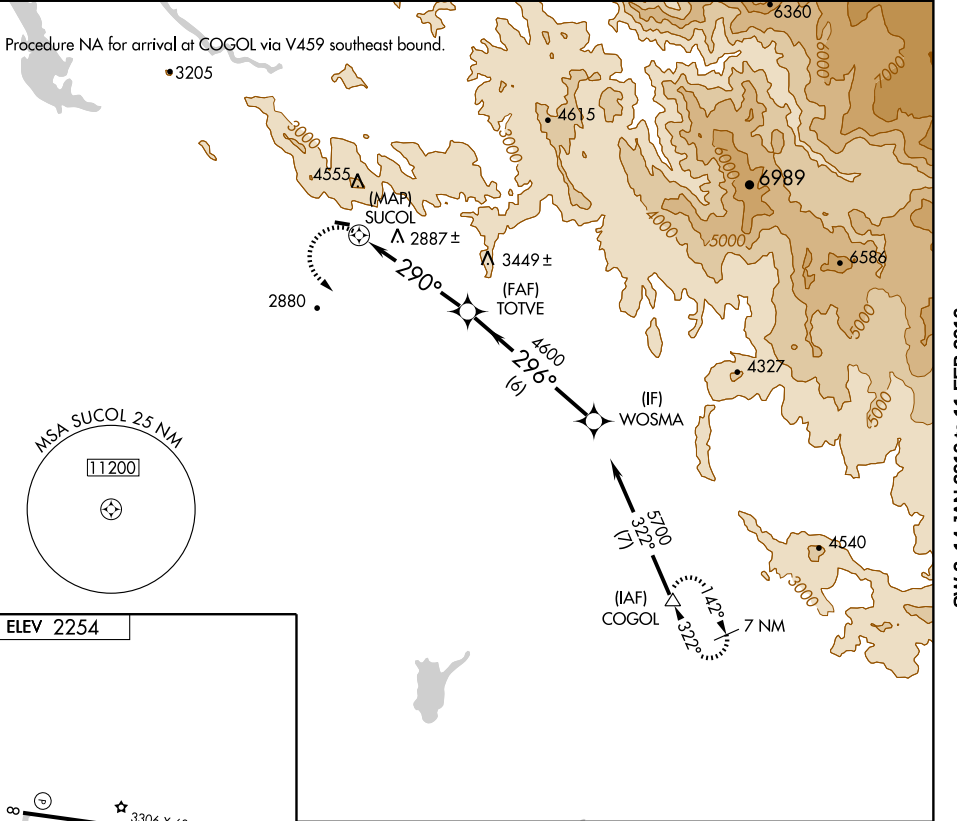
▼

NA

DME/DME RNP-0.3 NA.
Circling not authorized north of Rwy 8-26.
Procedure not authorized at night.
If local altimeter setting not received, use Atwater
altimeter setting and increase all MDAs 350 feet.

MISSED APPROACH: Climbing left turn to 7000 direct
COGOL and hold.

AWOS-3 135.6	OAKLAND CENTER 121.25 327.0	UNICOM 122.7 (CTAF) 0
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SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	N/A
098°	TDZE	N/A
	Apt Elev	2254

RNAV (GPS)-B

MARIPOSA-YOSEMITE (MPI)

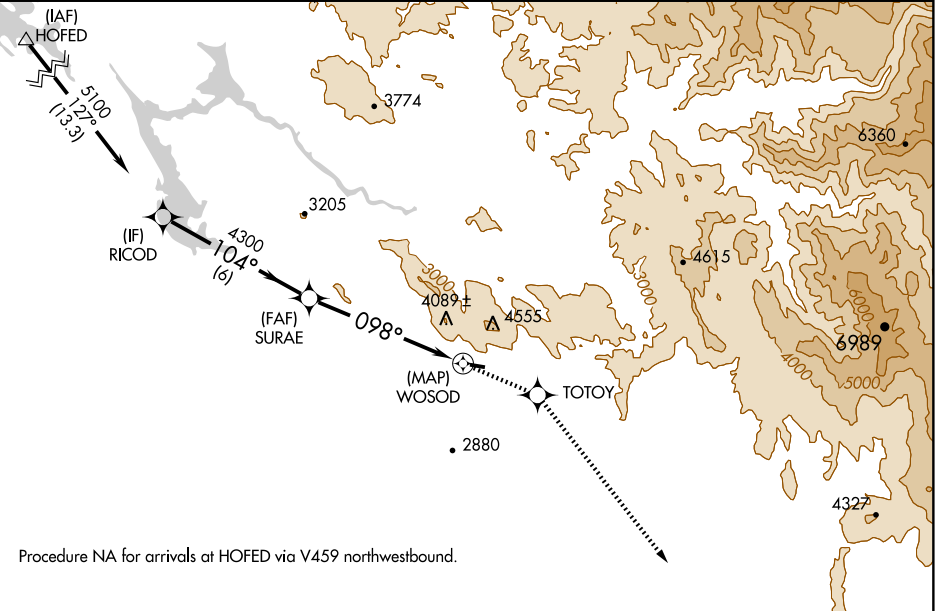
▼

NA

DME/DME RNP- 0.3 NA.
Circling not authorized north of Rwy 8-26.
Procedure not authorized at night.
If local altimeter setting not received, use Atwater
altimeter setting and increase all MDAs 350 feet.

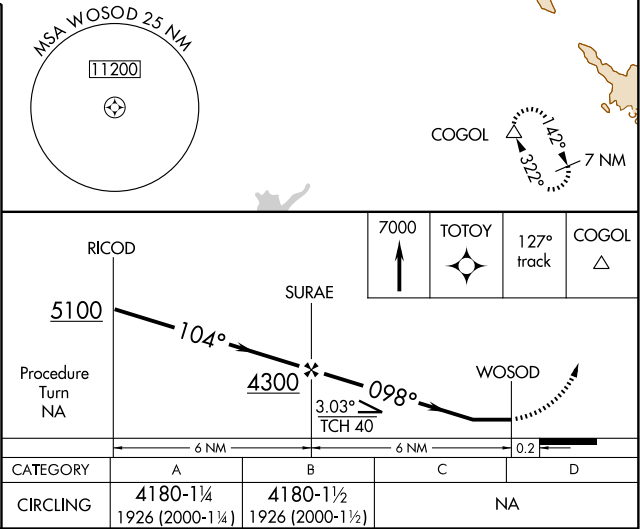
MISSED APPROACH: Climb to 7000 direct TOTOY and
via 127° track to COGOL and hold.

AWOS-3 135.6	OAKLAND CENTER 121.25 327.0	UNICOM 122.7 (CTAF) 0
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ELEV 2254

MIRL Rwy 8-26 0

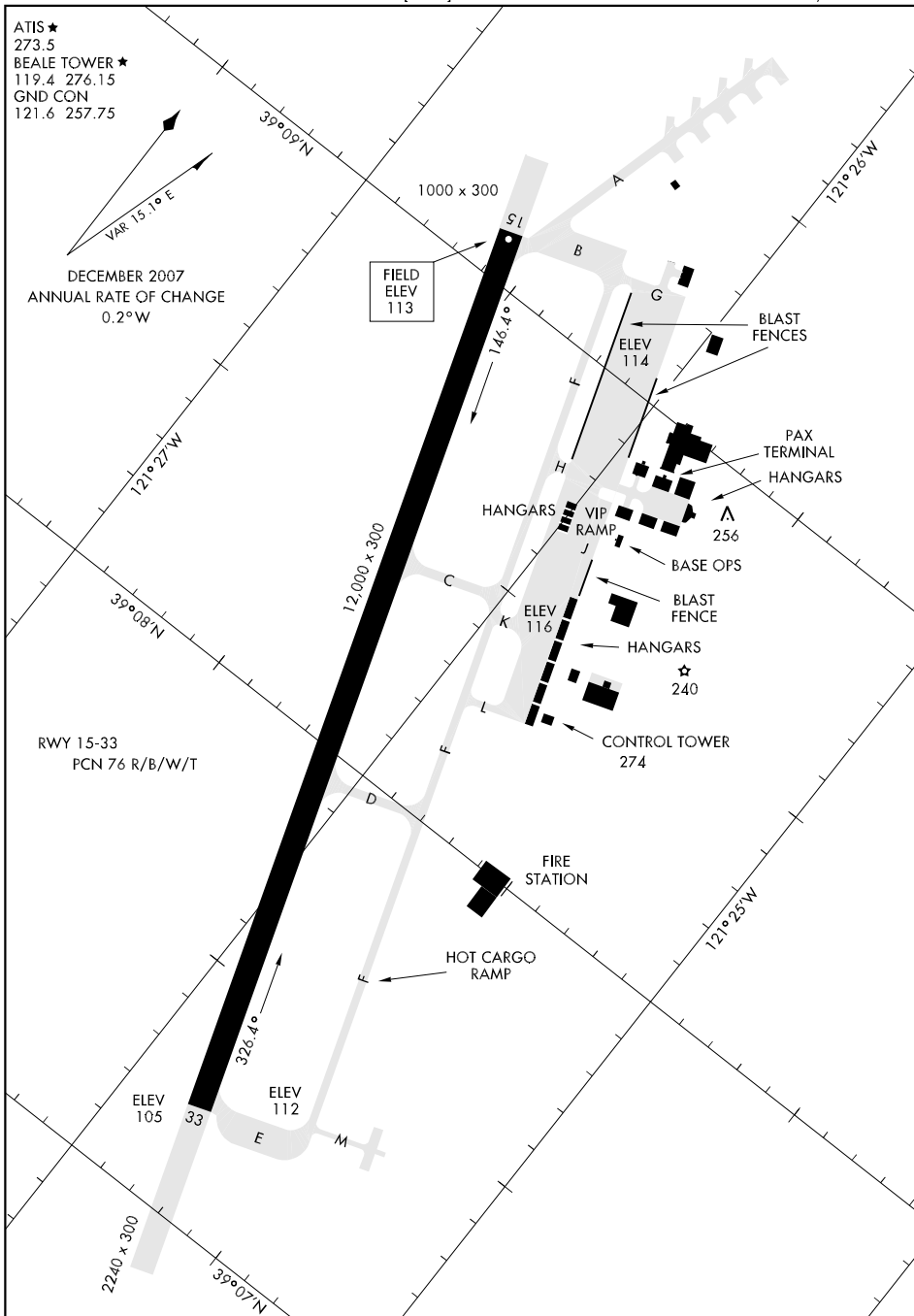


ATIS ★
273.5
BEALE TOWER ★
119.4 276.15
GND CON
121.6 257.75

DECEMBER 2007
ANNUAL RATE OF CHANGE
0.2°W



SW-2, 14 JAN 2010 to 11 FEB 2010



LOC I-BAB
109.5APCH CRS
145°Rwy Idg 12,000
TDZE 113
Arprt Elev 113

JAL-771 [USAF]

BEALE AFB (KBAB)



* When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT CD vis $1\frac{1}{2}$ miles, CAT E vis to $1\frac{1}{4}$ miles.

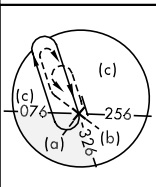
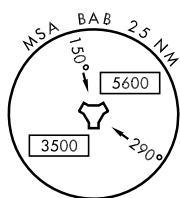


MISSED APPROACH: Climb to 3600 via BAB TACAN R-145, at FANDI, turn right, intercept BAB R-326 to HAPAK and hold.

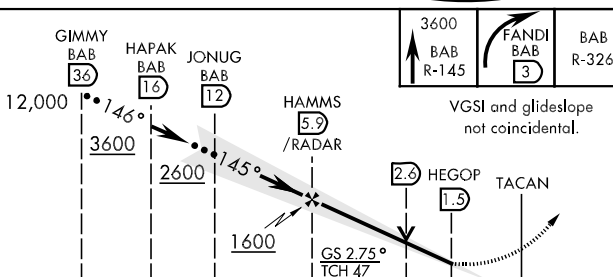
 ATIS ★
273.5

 NORCAL APP CON
125.4 259.1

 BEALE TOWER ★
119.4 276.15

 GND CON
121.6 257.75

 *** Circling not authorized
E of Rwy 15-33.


EMERG SAFE ALT 100 NM 13,700


 VGS and glideslope
not coincidental.

CATEGORY	C	D	E
S-ILS 15 *	313/24	200	(200- $\frac{1}{2}$)
S-LOC 15 **	620/50 507	(600-1)	620/60 507 (600- $\frac{1}{4}$)
CIRCLING ***	620- $1\frac{1}{2}$ 507 (600- $1\frac{1}{2}$)	680-2 567	(600-2)

HIRL Rwy 15-33

LOC I-MIZ
109.5

APCH CRS
325 °

Rwy Idg	12,000
TDZE	105
Arpt Elev	113

JAL-771 [USAF]

BEALE AFB (KBAB)

- T** * When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT CD RVR to 60
 and vis to $1\frac{1}{4}$ miles, CAT E vis to $1\frac{1}{2}$ miles.



MISSED APPROACH: Climb to 3600 via
BAB TACAN R-326 to HAPAK and hold.

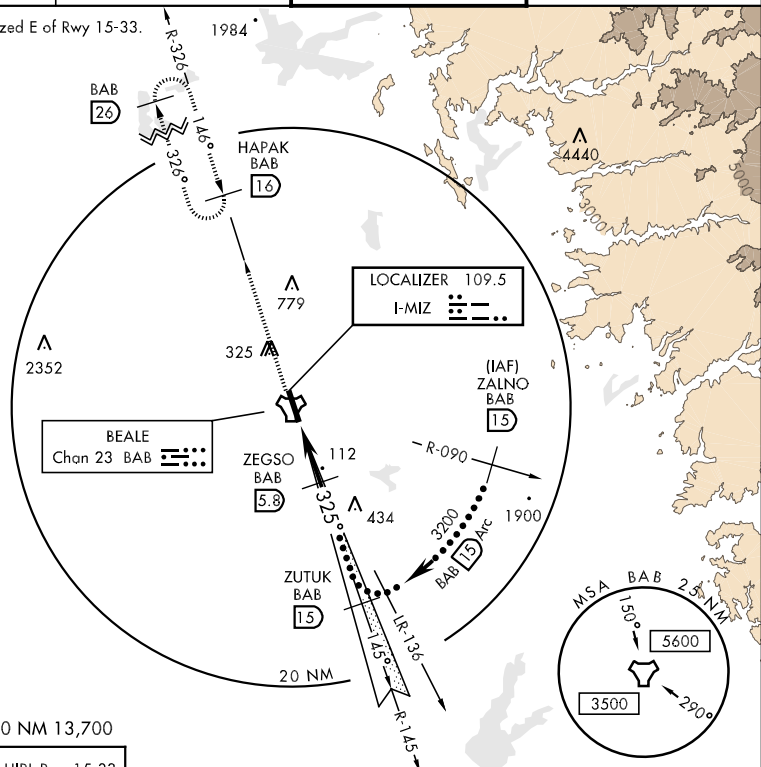
ATIS ★
273.5

NORCAL APP CON
125.4 259.1

BEALE TOWER ★
119.4 276.15

GND CON
121.6 257.75

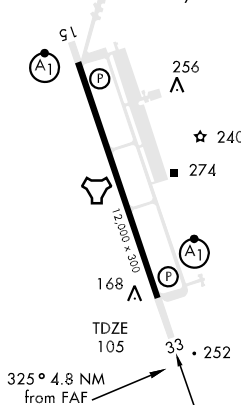
*** Circling not authorized E of Rwy 15-33.



EMERG SAFE ALT 100 NM 13,700

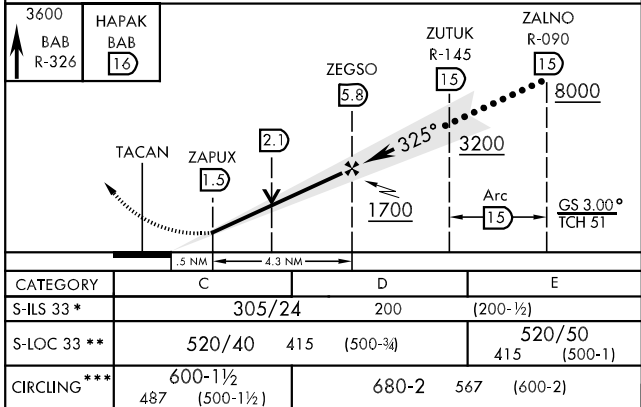
ELEV 113

HIRL Rwy 15-33



3600
BAB
R-326

HAPAK
BAB
16



TACAN	BAB	APCH CRS	Rwy Idg	12,000	JAL-771 [USAF]	HI-TACAN RWY 15
Chan	23		TDZE	113		
		153°	Arpt Elev	113		

BEALE AFB (KBAB)

T * When ALS inop, increase CAT C vis to 1½ miles, CAT DE vis to 1¾ miles.

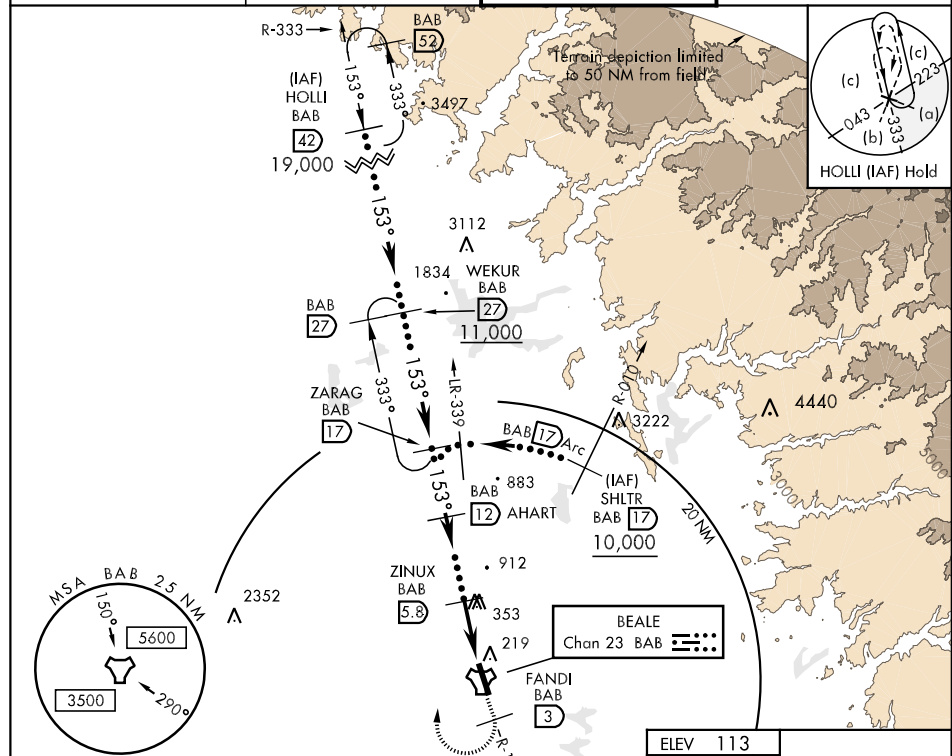
** Circling not authorized E of Rwy 15-33.

ALSF-1

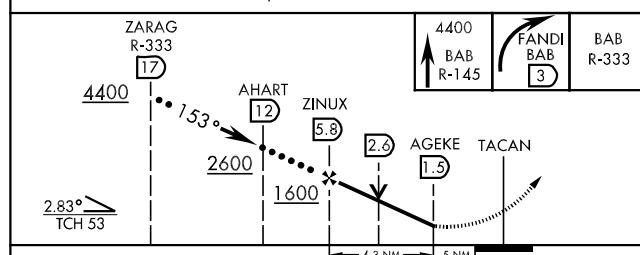


MISSED APPROACH: Climb to 4400 via BAB TACAN R-145, at FANDI, turn right, intercept BAB R-333 to ZARAG and hold, continue climb in hold to 4400.

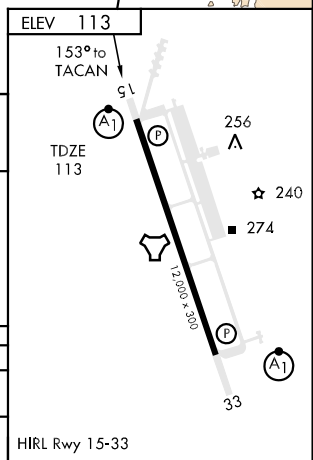
ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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EMERG SAFE ALT 100 NM 13,700



CATEGORY	C	D	E
S-15 *	640/50 527 (600-1)	640/60	527 (600-1¼)
CIRCLING **	640-1½ 527 (600-1½)	680-2	567 (600-2)



TACAN BAB Chan 23	APCH CRS 317°	Rwy Idg 12,000 TDZE 105 Arpt Elev 113
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JAL-771 [USAF]

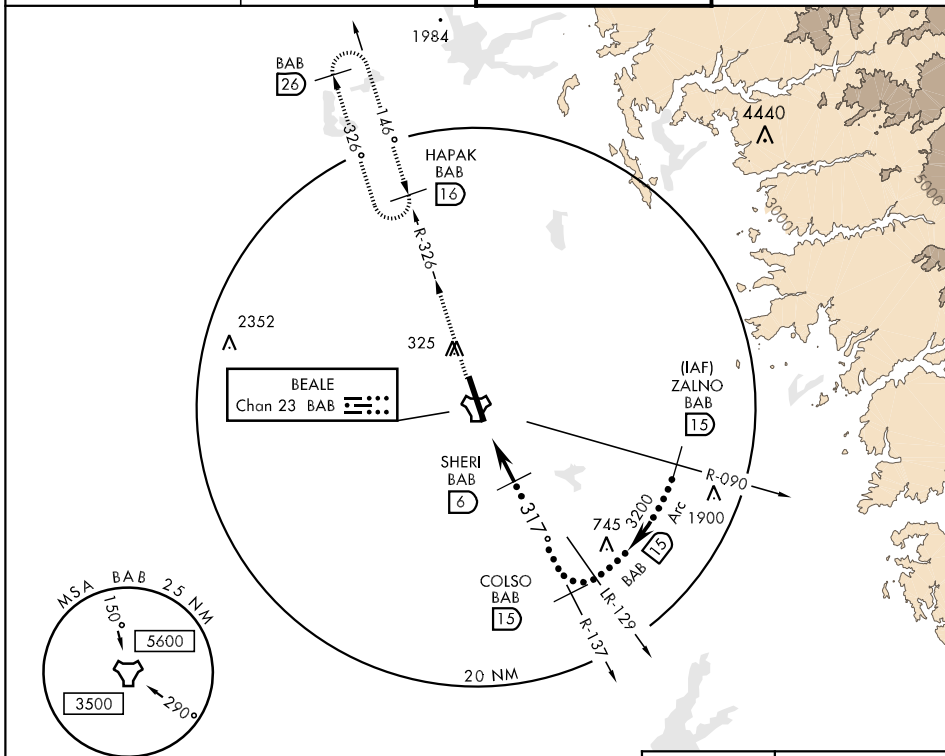
BEALE AFB (KBAB)

- ▼ * When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
 ** Circling not authorized E of Rwy 15-33.

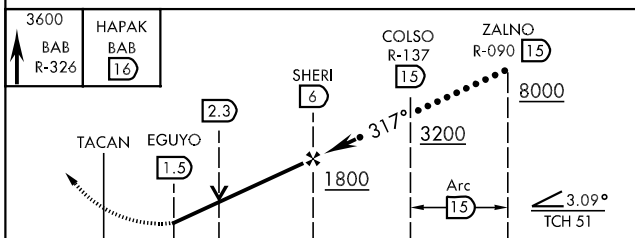


MISSED APPROACH: Climb to 3600 via
 BAB TACAN R-326 to HAPAK and hold.

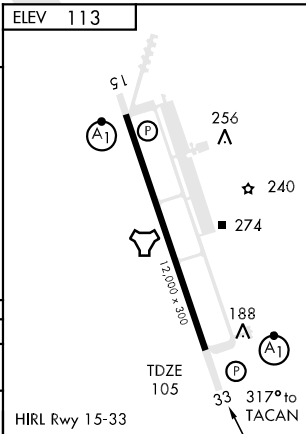
ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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EMERG SAFE ALT 100 NM 13,700



CATEGORY	C	D	E
S-33 *	580/40 475 (500-¾)	580/50 475 (500-1)	580/60 475 (500-1¼)
CIRCLING **	600-1½ 487 (500-1½)	680-2 567 (600-2)	



LOC I-BAB
109.5

PCH CR
145°

Rwy Idg	12,000
TDZE	113
Arpt Elev	113

AL-771 [USAF]

BEALE AFB (KBAB)

T * When ALS inop, increase all CAT RVR to 40 and vis to ¾ mile.

ALSF-1

MISSED APPROACH: Climb to 3600 via BAB
TACAN R-145, at FANDI turn right, intercept
BAB R-326 to HAPAK and hold.

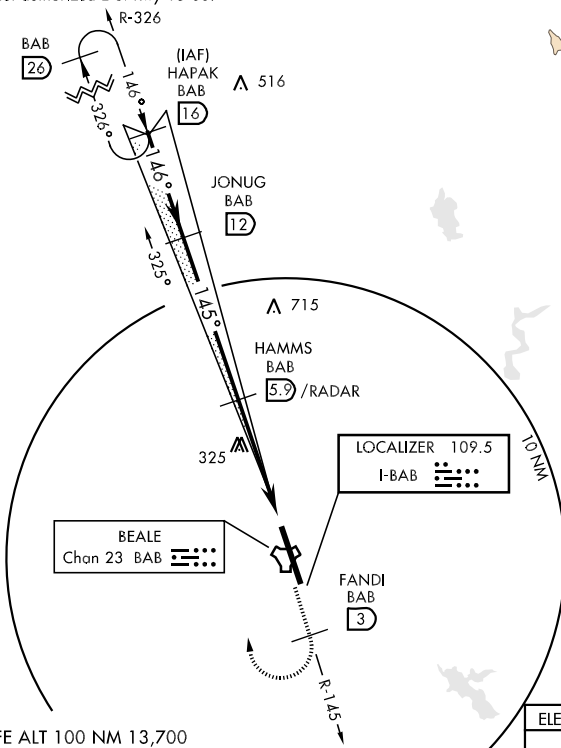
ATIS ★
273.5

NORCAL APP CON
125.4 259.1

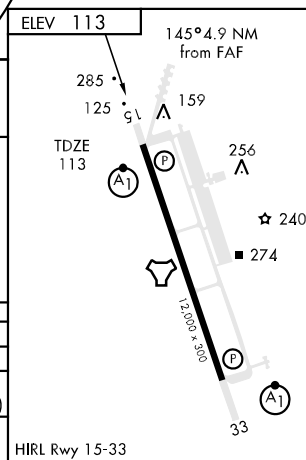
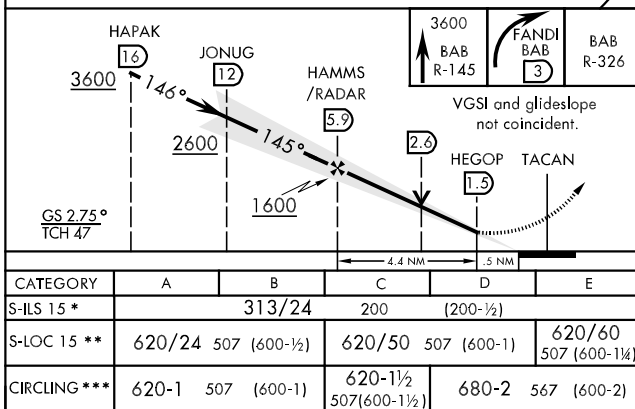
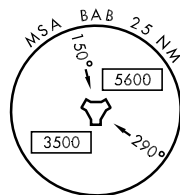
BEALE TOWER ★
119.4 276.15

	GND CON
121.6	257.75

*** Circling not authorized E of Rwy 15-33.



EMERG SAFE ALT 100 NM 13,700



MARYSVILLE, CALIFORNIA

39°08'N-121° 26'W

BEALE AFB (KBAB)

Orig 09155

SW-2, 14 JAN 2010 to 11 FEB 2010

LOC I-MIZ
109.5

PCH CR
325°

Rwy Idg	12,000
TDZE	105
Arpt Elev	113

AL-771 [USAF]

BEALE AFB (KBAB)

T * When ALS inop, increase CAT ABCDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
 CAT CD RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT E vis to $1\frac{1}{2}$ miles.

ALSF-1

MISSED APPROACH: Climb to 3600 via
BAB TACAN R-326 to HAPAK and hold.

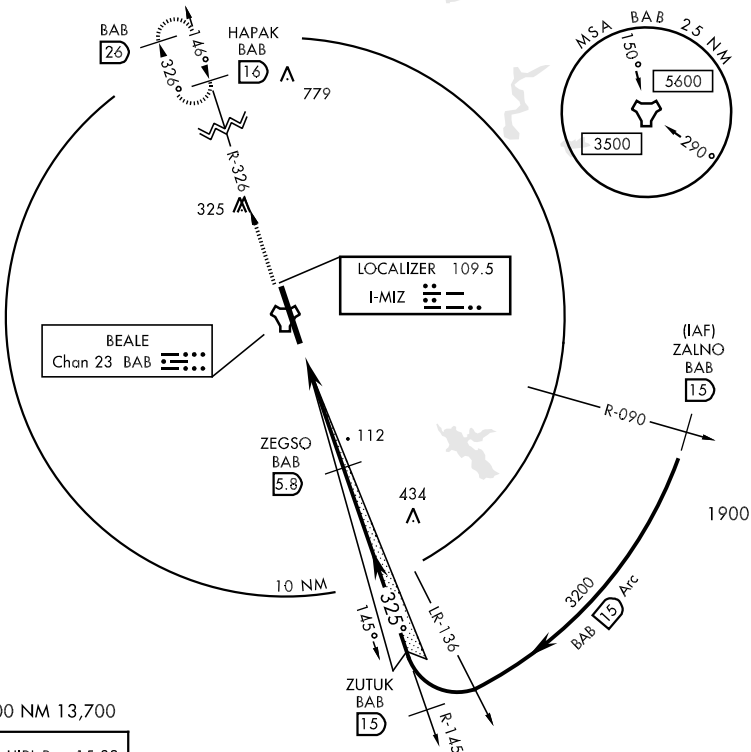
ATIS ★
273.5

NORCAL APP CON
125.4 259.1

BEALE TOWER ★
119.4 276.15

GND CON
121.6 257.75

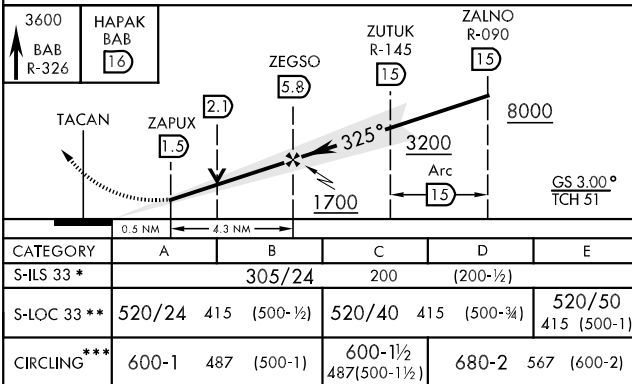
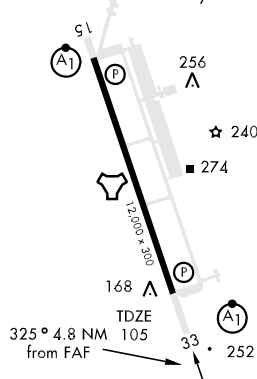
*** Circling not authorized E of Rwy 15-33.



EMERG SAFE ALT 100 NM 13,700

ELEV 113

HIRL Rwy 15-33



MARYSVILLE, CALIFORNIA

39°08'N-121°26'W

BEALE AFB (KBAB)

Orig 09155

SW-2, 14 JAN 2010 to 11 FEB 2010

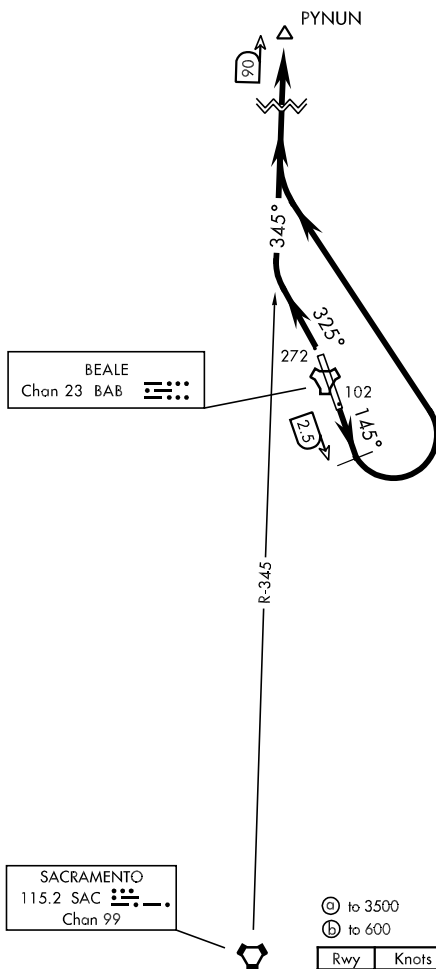
PYNUN-FOUR DEPARTURE (PYNUN4 • PYNUN)

BEALE AFB (KBAF)
MARYSVILLE, CALIFORNIA

ATIS ★ 273.5
GND CON
121.6 257.75
BEALE TOWER ★
119.4 276.15
NORCAL DEP CON
125.4 259.1

SHL-771 [USAF]

6768



- Ⓐ to 3500
- Ⓑ to 600

Minimum Climb Rate

Rwy	Knots	60	120	180	240	300	360
15 Ⓐ	V/V(fpm)	260	520	780	1040	1300	1560
33 Ⓑ	V/V(fpm)	260	520	780	1040	1300	1560

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 15: Fly heading 145° until BAB TACAN 2.5 DME, turn left intercept SAC VORTAC R-345 to PYNUN. Then via assigned route.

TAKE-OFF RWY 33: Fly heading 325° intercept SAC VORTAC R-345 to PYNUN. Then via assigned route.

TACAN BAB Chan 23	APCH CRS 153°	Rwy Idg 12,000 TDZE 113 Arpt Elev 113
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AL-771 [USAF]

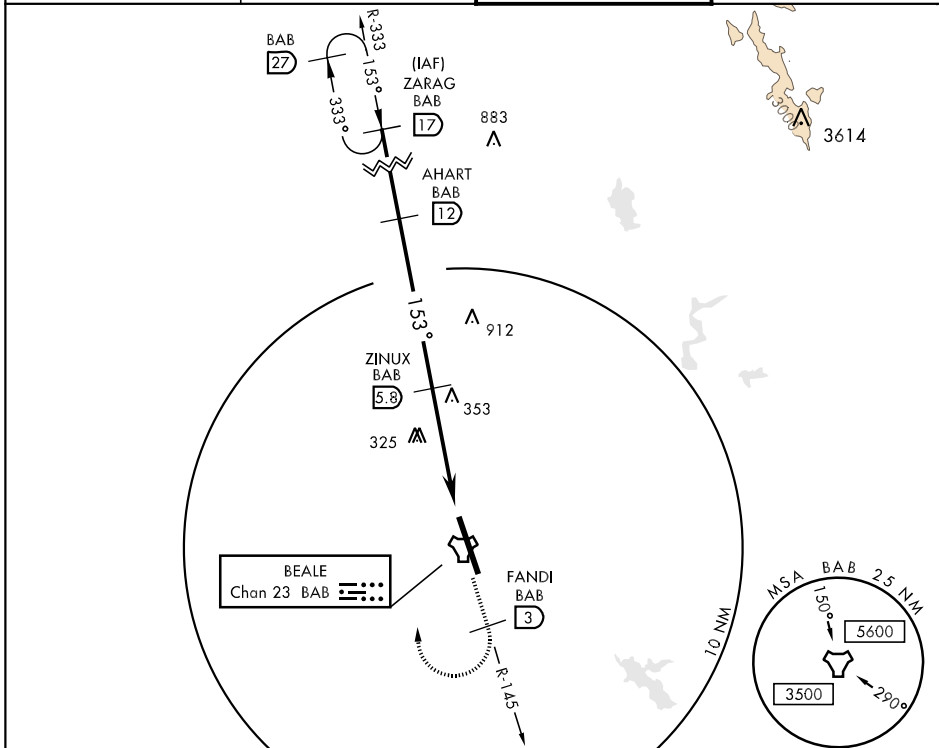
BEALE AFB (KBAB)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT DE vis to 1¾ miles.
 ** Circling not authorized E of Rwy 15-33.

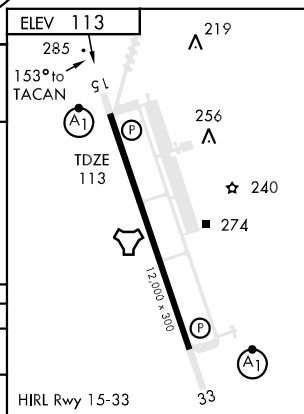
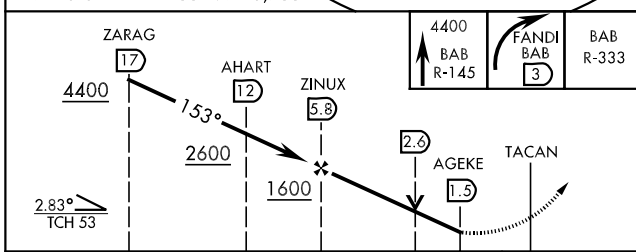


MISSED APPROACH: Climb to 4400 via BAB TACAN R-145, at FANDI, turn right, intercept BAB R-333 to ZARAG and hold, continue climb in hold to 4400.

ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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EMERG SAFE ALT 100 NM 13,700



CATEGORY	A	B	C	D	E
S-15 *	640/24 527 (600-½)	640/50 527 (600-1)	640/60 527 (600-1½)		
CIRCLING **	640-1 527 (600-1)	640-1½ 527 (600-1½)	680-2 567 (600-2)		

TACAN BAB Chan 23	APCH CRS 317°	Rwy ldg 12,000 TDZE 105 Arpt Elev 113
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AL-771 [USAF]

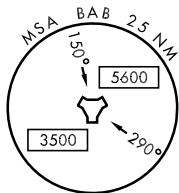
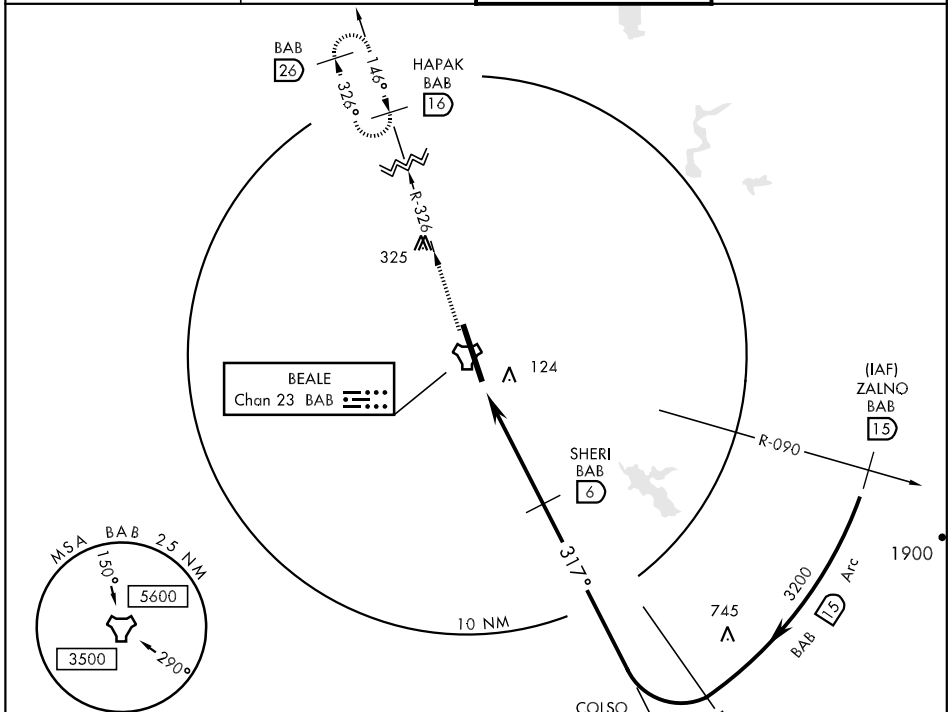
BEALE AFB (KBAB)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
 ** Circling not authorized E of Rwy 15-33.



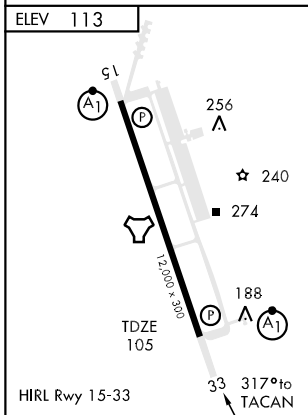
MISSED APPROACH: Climb to 3600 via BAB TACAN R-326 to HAPAK and hold.

ATIS ★ 273.5	NORCAL APP CON 125.4 259.1	BEALE TOWER ★ 119.4 276.15	GND CON 121.6 257.75
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EMERG SAFE ALT 100 NM 13,700

ELEV 113



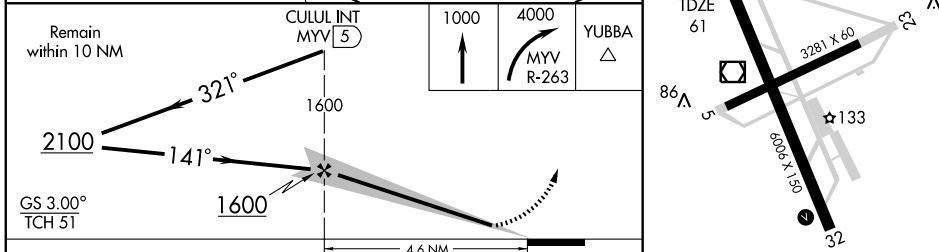
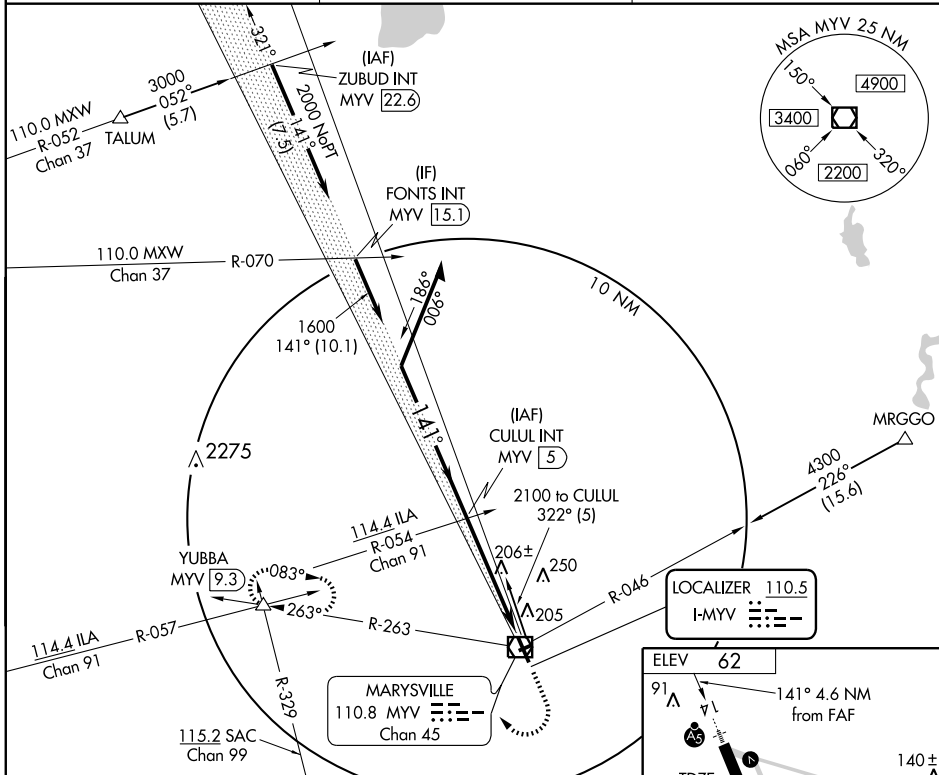
3600 BAB R-326	HAPAK BAB 16	SHERI 6	COLSO R-137 15	ZALNO R-090 15	8000	≤ 3.09° TCH 51
TACAN	EGUYO 1.5	2.3	317°	3200 Arc 15		
.5 NM	4.5 NM					
CATEGORY	A	B	C	D	E	
S-33 *	580/24	475 (500-½)	580/40 475 (500-¾)	580/50 475 (500-1)	580/60 475 (500-1¼)	
CIRCLING **	600-1	487 (500-1)	600-1½ 487 (500-1½)	680-2	567 (600-2)	

LOC I-MYV 110.5	APP CRS 141°	Rwy Idg 6006 TDZE 61 Apt Elev 62
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ILS or LOC RWY 14 MARYSVILLE/ YUBA COUNTY (MYV)

NA If local altimeter setting not received, use Oroville Muni altimeter setting and increase all DAs/MDAs 80 feet. Autopilot coupled approach NA below 576.	MAISR	MISSED APPROACH: Climb to 1000, then climbing right turn to 4000 via MYV R-263 to YUBBA INT/MYV VOR/DME 9.3 DME and hold. Continue climb in hold to 4000.
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ASOS 118.475	NORCAL APP CON 125.4 259.1	UNICOM 123.05 (CTAF) 0
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CATEGORY	A	B	C	D
S-ILS 14		261-1/2	200 (200-1/2)	
S-LOC 14		460-1/2	399 (400-1/2)	460-3/4 399 (400-3/4)
CIRCLING	540-1	478 (500-1)	540-1 1/2 478 (500-1 1/2)	620-2 558 (600-2)

REIL Rwy 14					
HIRL Rwy 14-32		140		141	
FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

WAAS CH 42814 W14A	APP CRS 141°	Rwy Idg 6006 TDZE 64 Apt Elev 64
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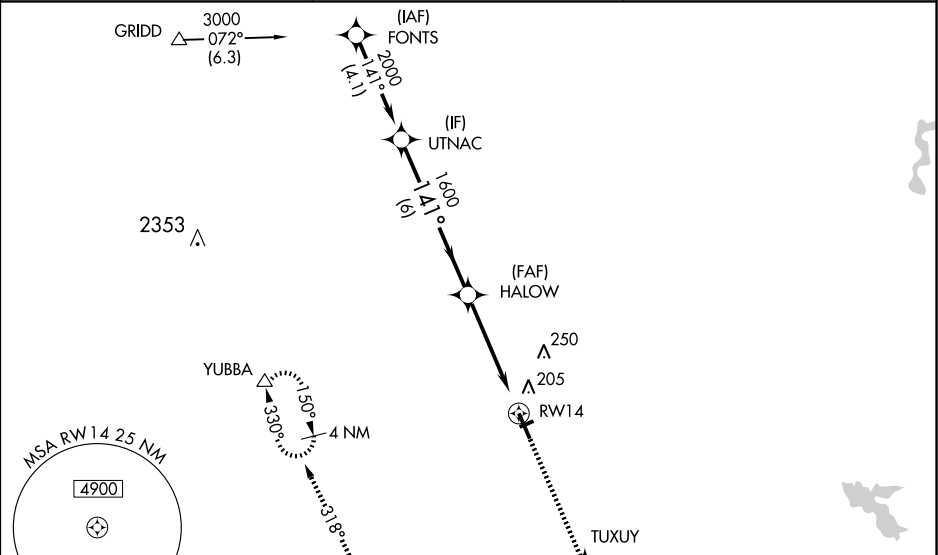
RNAV (GPS) RWY 14
MARYSVILLE/YUBA COUNTY (MYV)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV and VDP NA when using Lincoln altimeter setting. When local altimeter setting not received, use Lincoln altimeter setting and increase all DA 44 feet and all MDA 60 feet. Inoperative table does not apply to LPV all Cats. For inoperative MALSR increase LNAV all Cats visibility ¼ mile. For inoperative MALSR when using Lincoln altimeter setting, increase LNAV Cats A and B visibility ¼ mile.

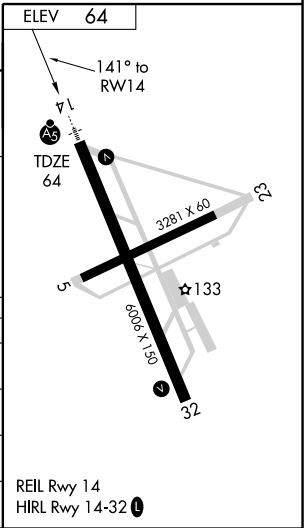


MISSED APPROACH: Climb to 4000 direct TUXUY and via track 251° to RADNE and via track 318° to YUBBA and hold.

ASOS 118.475	NORCAL APP CON 125.4 259.1	UNICOM 123.05 (CTAF) 0
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UTNAC		4000 ↑	TUXUY ✧	trk 251°	RADNE ✧	trk 318°	YUBBA △
2000		HALOW					*LNAV only.
Procedure Turn NA		*1.1 NM to RW14					
GS 3.00° TCH 51		RW14					
141°							
1600							
6 NM		3.5 NM		1.1NM			
CATEGORY	A	B	C	D			
LPV DA	264- ³ / ₄ 200 (200- ³ / ₄)						
LNAV/ VNAV DA	470-1 406 (500-1)						
LNAV MDA	460- ³ / ₄ 396 (400- ³ / ₄)					460-1 396 (400-1)	
CIRCLING	540-1 476 (500-1)			540-1½ 476 (500-1½)		620-2 556 (600-2)	



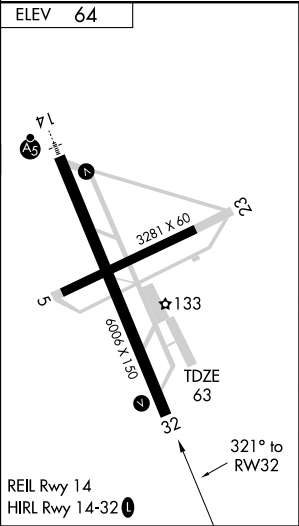
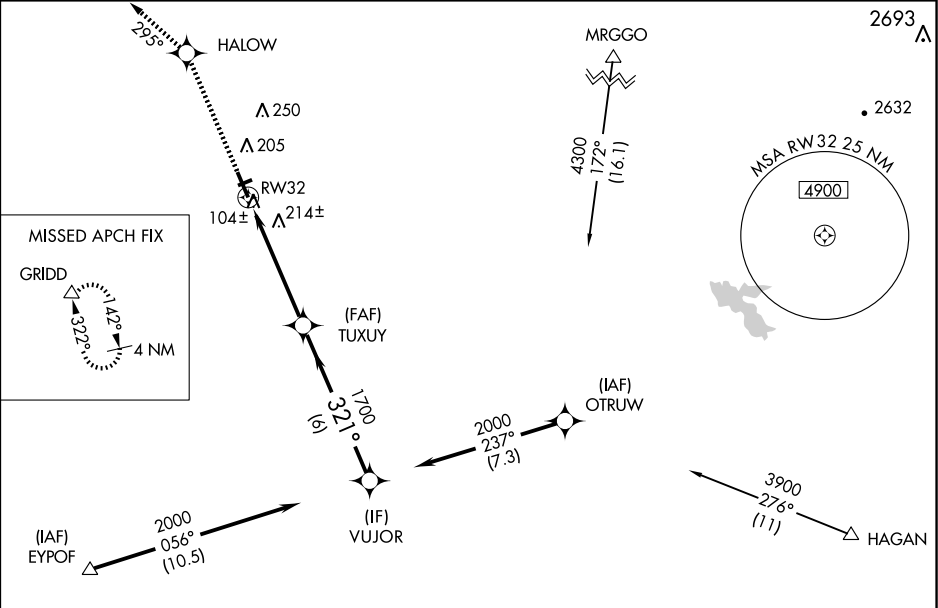
WAAS CH 87014 W32A	APP CRS 321°	Rwy Idg 6006 TDZE 63 Apt Elev 64
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RNAV (GPS) RWY 32
MARYSVILLE/ YUBA COUNTY (MYV)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lincoln altimeter setting and increase all DA 44 feet and all MDA 60 feet and increase LNAV Cat D visibility ¼ mile. Baro-VNAV and VDP NA when using Lincoln altimeter setting.

MISSED APPROACH: Climb to 4000 direct HALOW and via track 295° to GRIDD and hold.

ASOS 118.475	NORCAL APP CON 125.4 259.1	UNICOM 123.05 (CTAF) 0
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ELEV 64	4000	HALOW	trk 295°	GRIDD	*LNAV only	VUJOR	Procedure Turn NA
	↑	✧		△		2000	
						321°	
						1700	
							GS 3.00° TCH 32
CATEGORY	A	B	C	D			
LPV DA	313-1	250 (300-1)					
LNAV/VNAV DA	374-1¼	311 (400-1¼)					
LNAV MDA	480-1	417 (500-1)	480-1¼	417 (500-1¼)			
CIRCLING	540-1	476 (500-1)	540-1½ 476 (500-1½)	620-2 556 (600-2)			

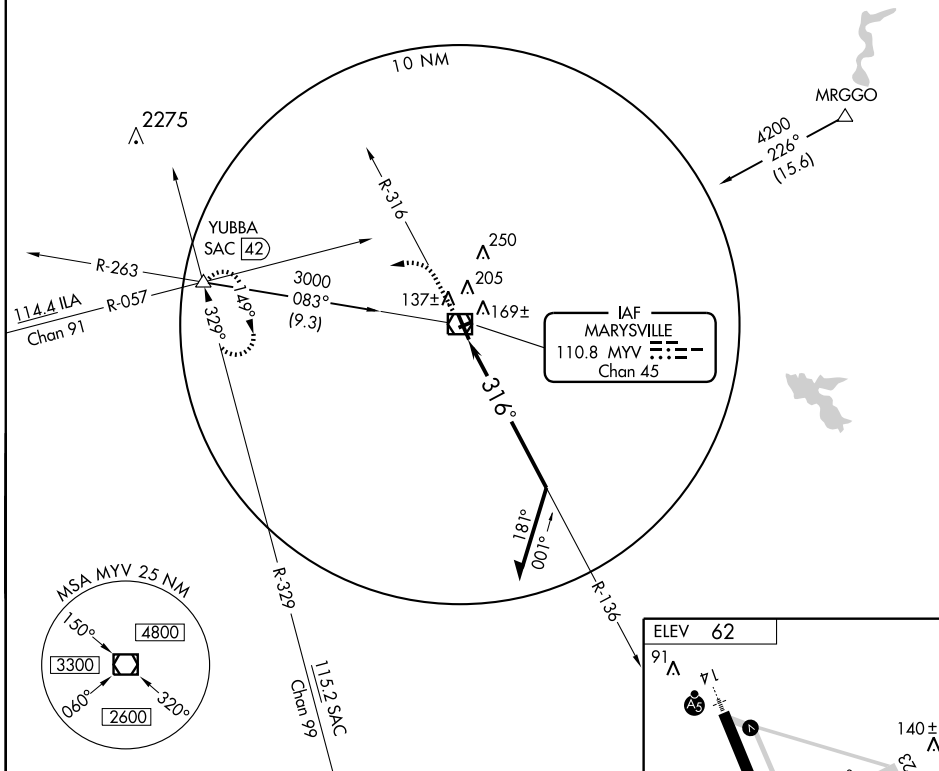
VOR RWY 32
MARYSVILLE/ YUBA COUNTY (MYV)

MISSED APPROACH: Climb to 2300 via MYV R-316, then climbing left turn to 4000 via heading 230° and SAC R-329 to YUBBA Int/SAC 42 DME and hold.

ASOS
118.475

NORCAL APP CON
125.4 259.1

UNICOM
123.05 (CTAF) **L**



SW-2. 14 JAN 2010 to 11 FEB 2010

2300 ↑ MYV R-316	4000 ↖ 230°	SAC R-329 115.2	YUBBA △	VOR/DME 136° 316° 1700 Remain within 10 NM
CATEGORY	A	B	C	D
S-32	540-1	479 (500-1)	540-1¼ 479 (500-1¼)	540-1½ 479 (500-1½)
CIRCLING	540-1	478 (500-1)	540-1½ 478 (500-1½)	620-2 558 (600-2)

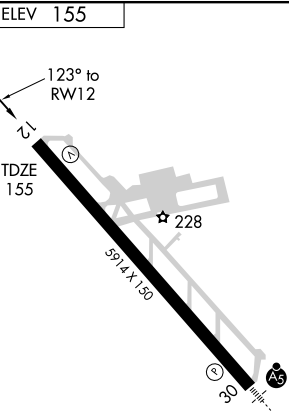
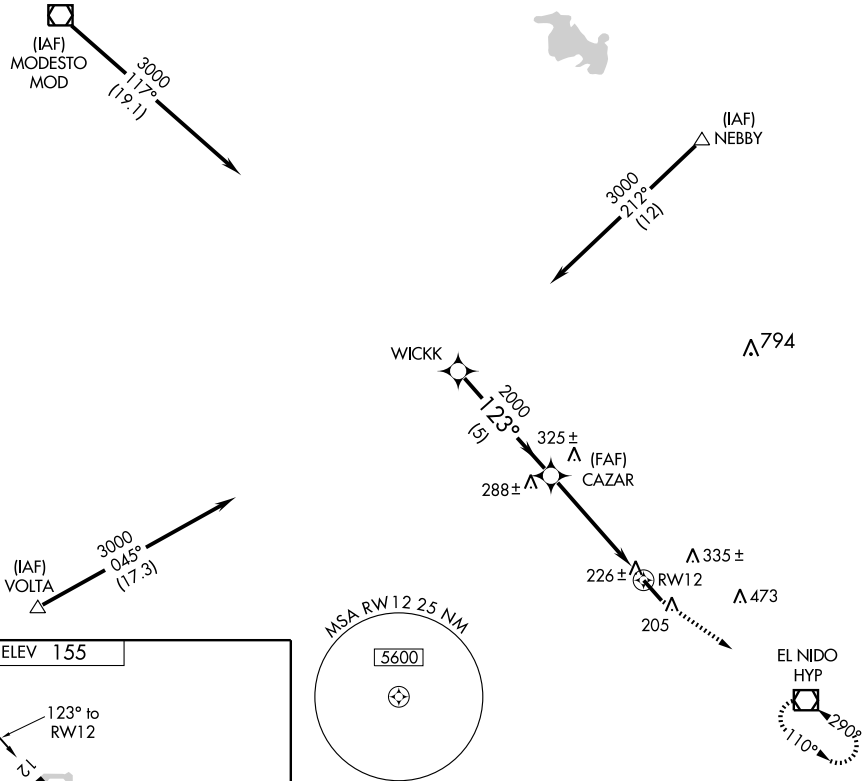
When local altimeter setting not received, use Castle altimeter setting and increase all MDAs 20 feet. Circling NA NE of Rwy 12-30.

MISSED APPROACH: Climb to 2000 direct HYP VOR/DME and hold.

ASOS
132.175

NORCAL APP CON
120.95 269.4

UNICOM
122.7 (CTAF)



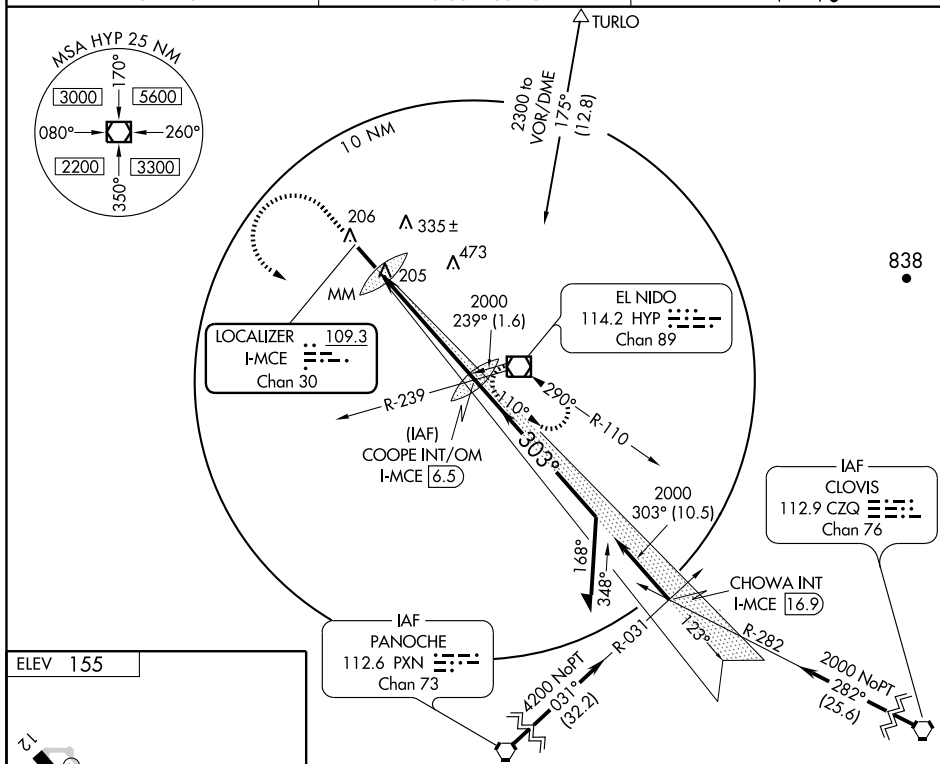
WICKK VGS1 and descent angles not coincident				
Procedure Turn NA				
CATEGORY	A	B	C	D
S-12	520-1 365 (400-1)			520-1½ 365 (400-1½)
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)

ILS or LOC RWY 30
MERCED RGNL/MACREADY FIELD (MCE)

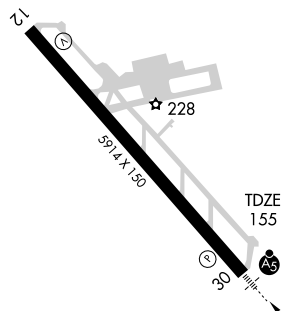
MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct HYP VOR/DME and hold.

NORCAL APP CON
120.95 269.45

UNICOM
122.7 (CTAF) **L**

ELEV 155



HIRL Rwy 12-30 **L** 303° 5.4 NM
REFL Rwy 12 from FAF

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

[illegible]

CATEGORY	A	B	C	D
S-ILS 30	355- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)			
S-LOC 30	480- $\frac{1}{2}$ 325 (400- $\frac{1}{2}$)			480- $\frac{3}{4}$ 325 (400- $\frac{3}{4}$)
CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1 $\frac{1}{2}$ 465 (500-1 $\frac{1}{2}$)	720-2 565 (600-2)

WAAS CH 93709 W30A	APP CRS 304°	Rwy Idg 5914 TDZE 155 Apt Elev 155
--	------------------------	---

RNAV (GPS) RWY 30

MERCED RGNL/MACREADY FIELD (MCE)

T Circling NA NE of kwy 12-30. Baro-VNAV NA when using Merced/Castle altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

A VDP NA when using Castle altimeter setting. For inoperative MALSR, increase LNAV visibilities Cat A, B, C to 1 mile and Cat D to 1½ mile. When local altimeter setting not received, use Castle altimeter setting and increase all DA/MDA 20 feet. Inoperative table does not apply.

MALSR



MISSED APPROACH:
Climb to 3000 direct
ZEXIK and via track
247° to VOLTA and
hold.

ASOS
132,175

NORCAL APP CON
120.95 269.4

UNICOM
122.7 (CTAF) **L**

MISSED APCH FIX

ZEXIK

VOLTA

A schematic diagram of a protein chain. A dashed line represents the protein backbone. A segment of the chain is labeled "4 NM". Two angles are indicated: 49° and 329° . A triangle is drawn at the end of the chain, and a dashed line with an arrow points towards it.

838

(FAF)
HOKUP

(IAF)
LAPOW
△

VOLTA

3600
107°
(31.9)

MSA RW 30 25 NM

5600

PANOC
PXN

4700
032° (24.2)

ROOTH

ELEV 155

3000	ZEXIK	track	VOLTA
		247°	

HOKUP

CHOWA

Procedure
Turn
NA
GS 3.00°

* LNAV only * 0.9 NM to RW30

	0.7	4.8 NM		10.5 NM	
CATEGORY	A	B		C	

LPV	DA	449- $\frac{3}{4}$ 294 (300- $\frac{3}{4}$)
-----	----	--

LNAY/DA	514-3/4 359 (400-3/4)
---------	-----------------------

LNAV MDA	500- $\frac{3}{4}$ 345 (400- $\frac{3}{4}$)	500-1 345 (400-1)
----------	--	----------------------

CIRCLING	560-1 405 (500-1)	620-1 465 (500-1)	620-1½ 465 (500-1½)	720-2 565 (600-2)
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REIL Rwy 12
HIRL Rwy 12-30

228

5914 X 150

TDZE 155

304° to RW30

VOR RWY 30

MERCED RGNL/MACREADY FIELD (MCE)

VOR/DME HYP	APP CRS	Rwy Idg	5914
114.2	289°	TDZE	155
Chan 89		Apt Elev	155

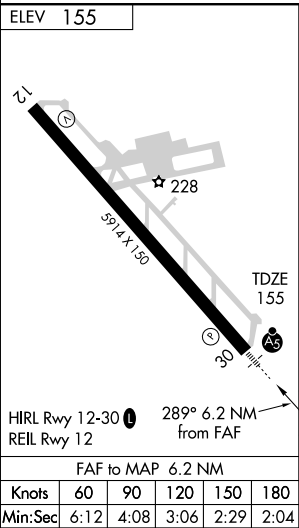
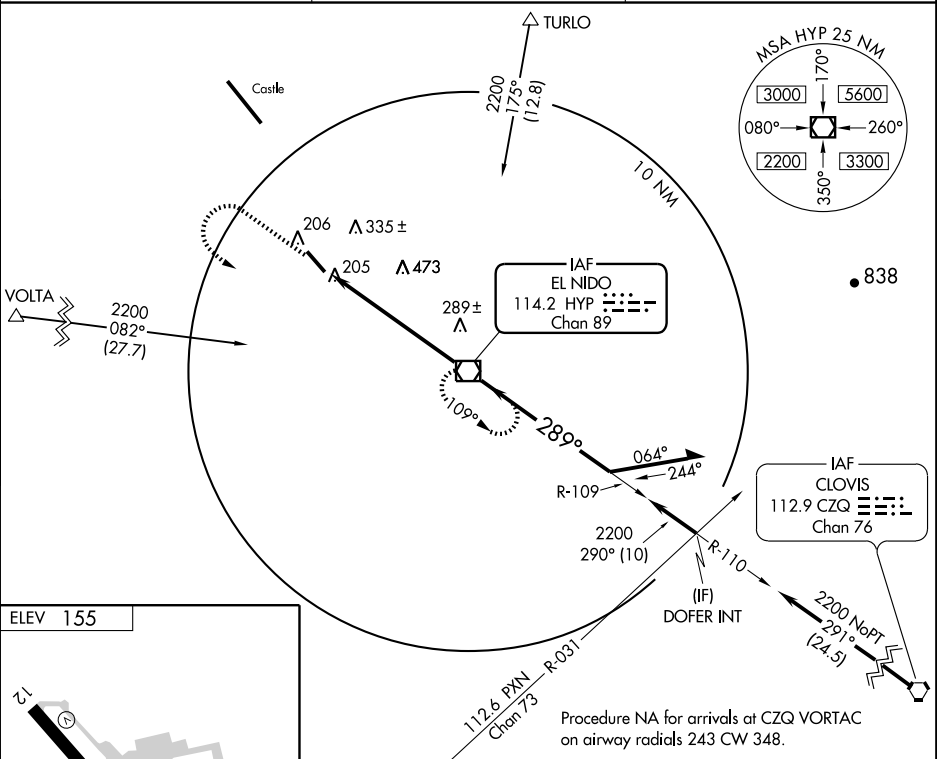
For inoperative MALS, increase S-30 Cat A and B visibility to 1 mile, and Cat D to 1 1/4 mile. Circling NA NE of Rwy 12-30. Visibility reduction by helicopters NA. VDP NA when using Castle altimeter setting. When local altimeter setting not received, use Castle altimeter setting and increase all MDAs 20 feet.

MALS



MISSED APPROACH: Climb to 1000 then climbing left turn to 2200 direct HYP VOR/DME and hold.

ASOS	NORCAL APP CON	UNICOM
132.175	120.95 269.45	122.7 (CTAF) 1



1000	2200	HYP	114.2	VOR/DME	Remain within 10 NM
		HYP	5.1		
		HYP	6.2		
			1.1 NM	5.1 NM	
CATEGORY	A	B	C	D	
S-30	560-3/4	405 (500-3/4)		560-1	405 (500-1)
CIRCLING	560-1	620-1	620-1 1/2	720-2	565 (600-2)
	405 (500-1)	465 (500-1)	465 (500-1 1/2)		

AIRPORT DIAGRAM

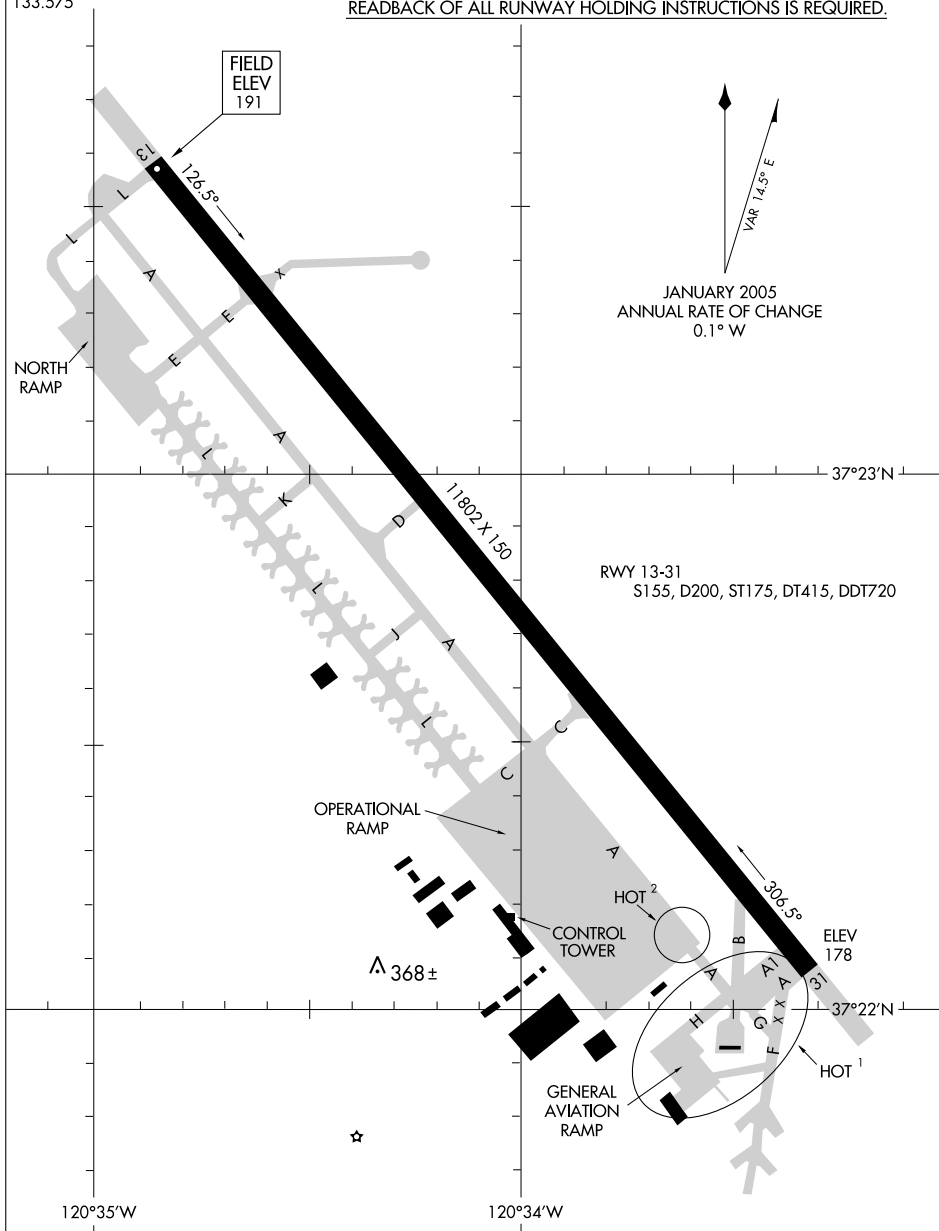
AL-568 (FAA)

MERCED/CASTLE (MER)

MERCED, CALIFORNIA

ATIS
124.475
CASTLE TOWER ★
118.175 235.775
GND CON
133.575

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



LOC I-MER	APP CRS	Rwy Idg	11802
109.5	306°	TDZE	181
		Apt Elev	191

ILS or LOC/DME RWY 31

MERCED/ CASTLE (MER)

⚠ Circling NA SW of Rwy 13-31.

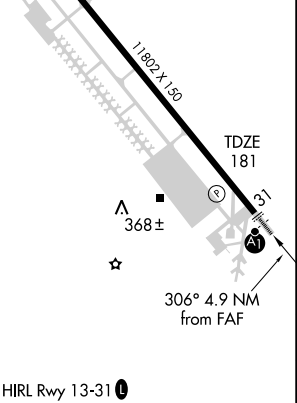
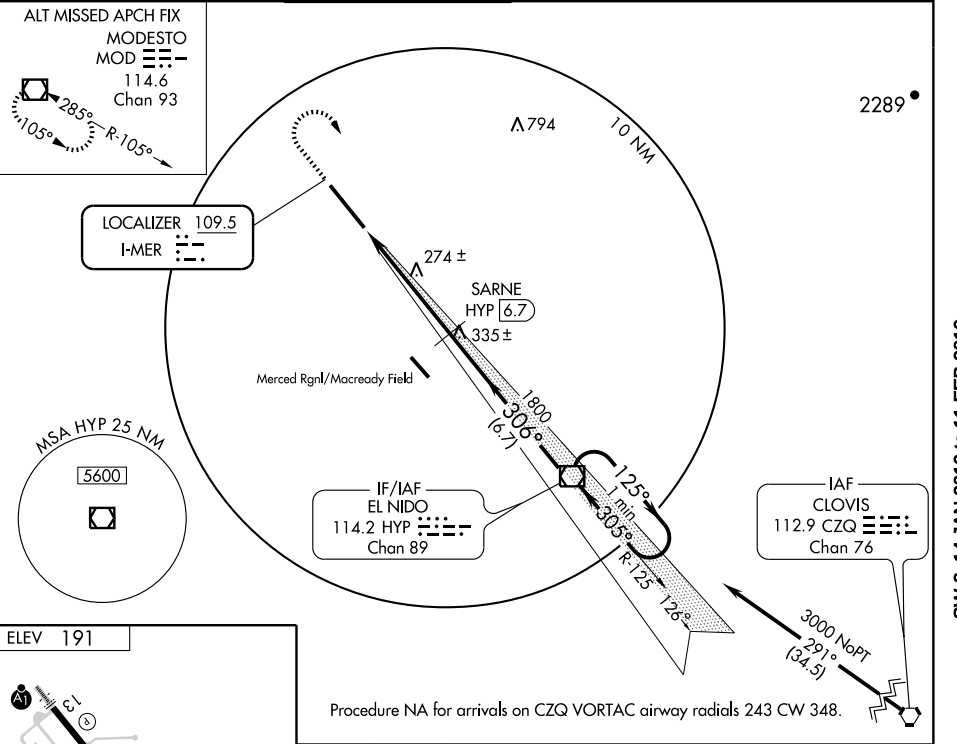
⚠ When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase DA/MDA 20 feet.

DME from HYP VOR/DME. Simultaneous reception of I-MER and HYP DME required.

ALSIF-1

MISSED APPROACH:
Climb to 800, then climbing right turn to 3000 direct HYP VOR/DME and hold.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	123.00



	800	3000	HYP				
				114.2			
			SARNE HYP 6.7	1800			
			HYP 11.6	4.9 NM	6.7 NM		
						VOR/DME	One Minute Holding Pattern
						125° 3000	305°
						306°	1800
							GS 3.00° TCH 55
CATEGORY	A	B	C	D			
S-ILS 31	381-½ 200 (200-½)						
S-LOC 31	540-½ 359 (400-½)				540-¾ 359 (400-¾)		
CIRCLING	640-1 449 (500-1)	660-1 469 (500-1)	660-1½ 469 (500-1½)		760-2 569 (600-2)		

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 50211 W13A	APP CRS 126°	Rwy Idg TDZE Apt Elev	11802 191 191
--	------------------------	-----------------------------	--

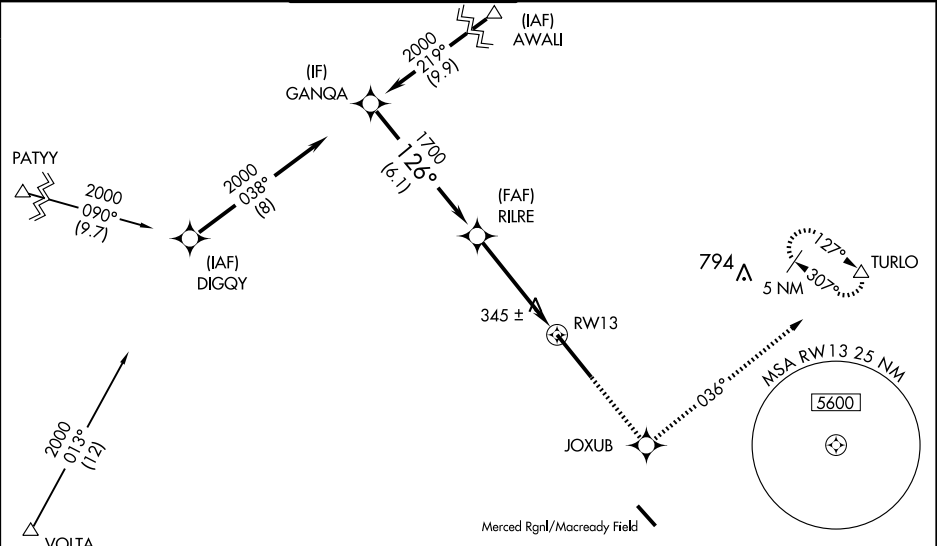
RNAV (GPS) RWY 13
MERCED/ CASTLE (MER)

⚠ Circling NA SW of Rwy 13-31. Baro-VNAV NA when using Merced Rgnl/Macready Field altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. VDP NA when using Merced Rgnl/Macready Field altimeter setting. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all DA/MDA 20 feet and LNAV/VNAV visibility ¼ mile. For inoperative ALSF-1 increase visibility LPV all Cats and LNAV Cat D to 1¼, and LNAV Cats A and B to 1. For inoperative ALSF-1 when using Merced Rgnl/Macready Field altimeter setting, increase visibility LPV all Cats to 1¼, and LNAV Cats A and B to 1.

ALSF-1

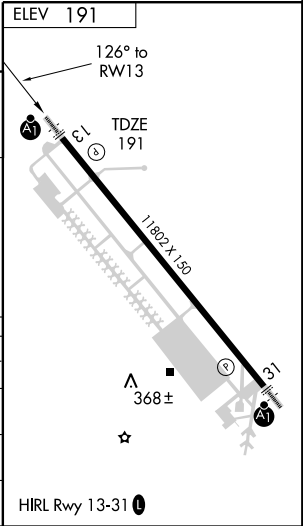
MISSED APPROACH:
Climb to 4000 direct JOXUB and via track 036° to TURLO and hold, continue climb-in-hold to 4000.

ATIS 124.475	NORCAL APP CON 120.95 269.45	CASTLE TOWER ★ 118.175 (CTAF) 235.775	GND CON 133.575	UNICOM 122.95	123.00
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ELEV 191

VGSI and RNAV glidepath not coincident				
	4000	JOXUB	TRK 036°	TURLO
	*LNAV only			
Procedure	GANQA			
Turn NA	126°			
GS 3.00°	1700			
TCH 55	RW13			
	6.1 NM	3.4 NM	1.1 NM	
CATEGORY	A	B	C	D
LPV DA	555-¾		364 (400-¾)	
LNAV/VNAV DA	655-1		464 (500-1)	
LNAV MDA	600-¾		409 (500-¾)	
	640-1		600-1	
CIRCLING	449 (500-1)	660-1	660-1½	760-2
	449 (500-1)	469 (500-1)	469 (500-1½)	569 (600-2)



WAAS CH 87110 W31A	APP CRS 306°	Rwy Idg TDZE Apt Elev	11802 181 191
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RNAV (GPS) RWY 31

MERCED/ CASTLE (MER)

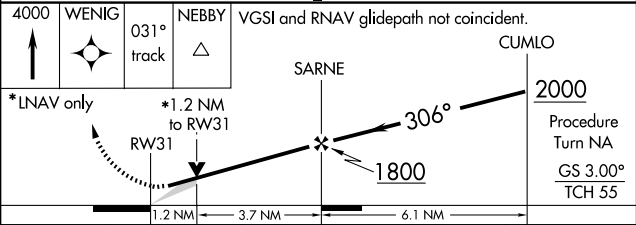
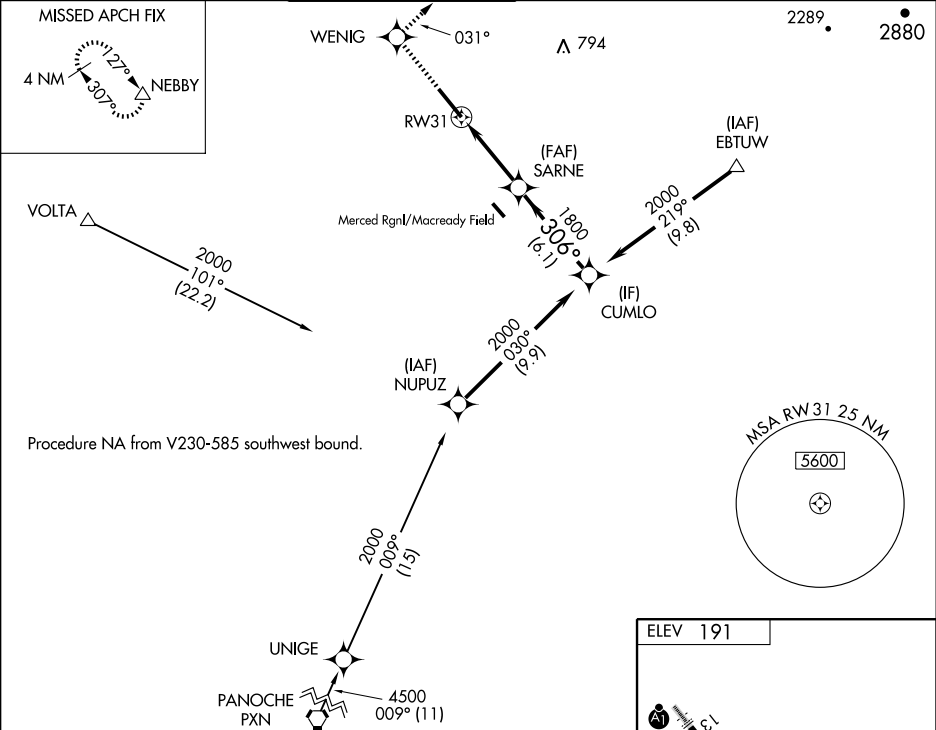
⚠ Circling NA SW of Rwy 13-31. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Merced Rgnl/Macready Field altimeter setting. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all DA/MDA 20 feet.

ALSF-1

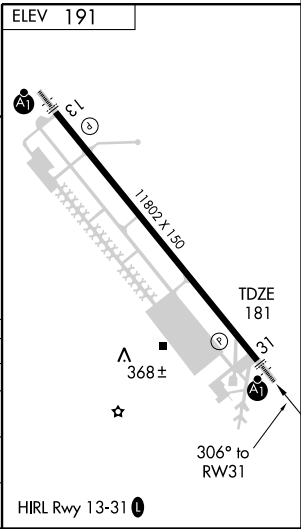


MISSED APPROACH: Climb to 4000 direct WENIG and via 031° track to NEBBY and hold, continue climb-in-hold to 4000.

ATIS 124.475	NORCAL APP CON 120.95 269.45	CASTLE TOWER ★ 118.175 (CTAF) 235.775	GND CON 133.575	UNICOM 122.95	123.00 
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CATEGORY	A	B	C	D
LPV DA		381-½	200 (200-½)	
LNAV/VNAV DA		540-¾	359 (400-¾)	
LNAV MDA	640-½	459 (500-½)	640-¾ 459 (500-¾)	640-1 459 (500-1)
CIRCLING	640-1 449 (500-1)	660-1 469 (500-1)	660-1½ 469 (500-1½)	760-2 569 (600-2)



VOR/DME HYP	APP CRS	Rwy Idg	11802
114.2	305°	TDZE	181
Chan 89		Apt Elev	191

VOR/DME RWY 31

MERCED / CASTLE (MER)

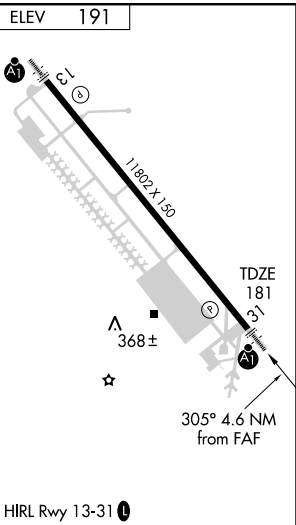
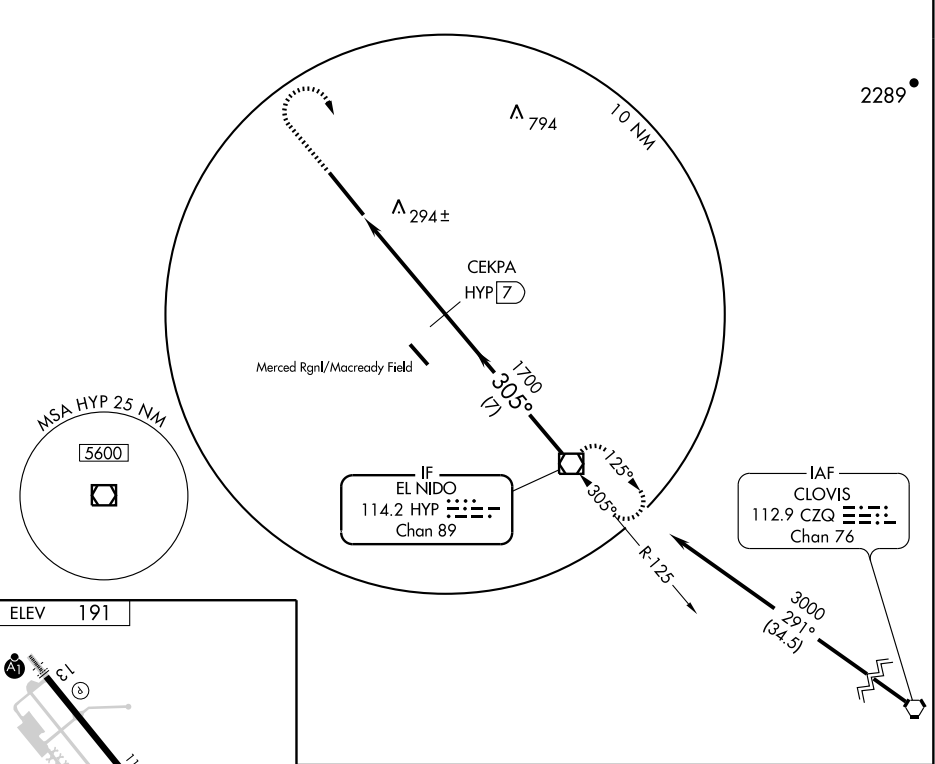
⚠ For inoperative ALSF-1, increase Cat D visibility to 1 ¼ mile. Circling not authorized SW of Rwy 13 and 31. When local altimeter setting not received, use Merced Rgnl/Macready Field altimeter setting and increase all MDA 20 feet. VDP NA when using Merced Rgnl/Macready Field altimeter setting.

ALSF-1

MISSED APPROACH: Climb to 800, then climbing right turn to 3000 direct HYP VOR/DME and hold.

ATIS	NORCAL APP CON	CASTLE TOWER ★	GND CON	UNICOM	123.00 0
124.475	120.95 269.45	118.175 (CTAF) 235.775	133.575	122.95	

Procedure NA for arrivals on CZQ VORTAC airway radials 243 CW 348.

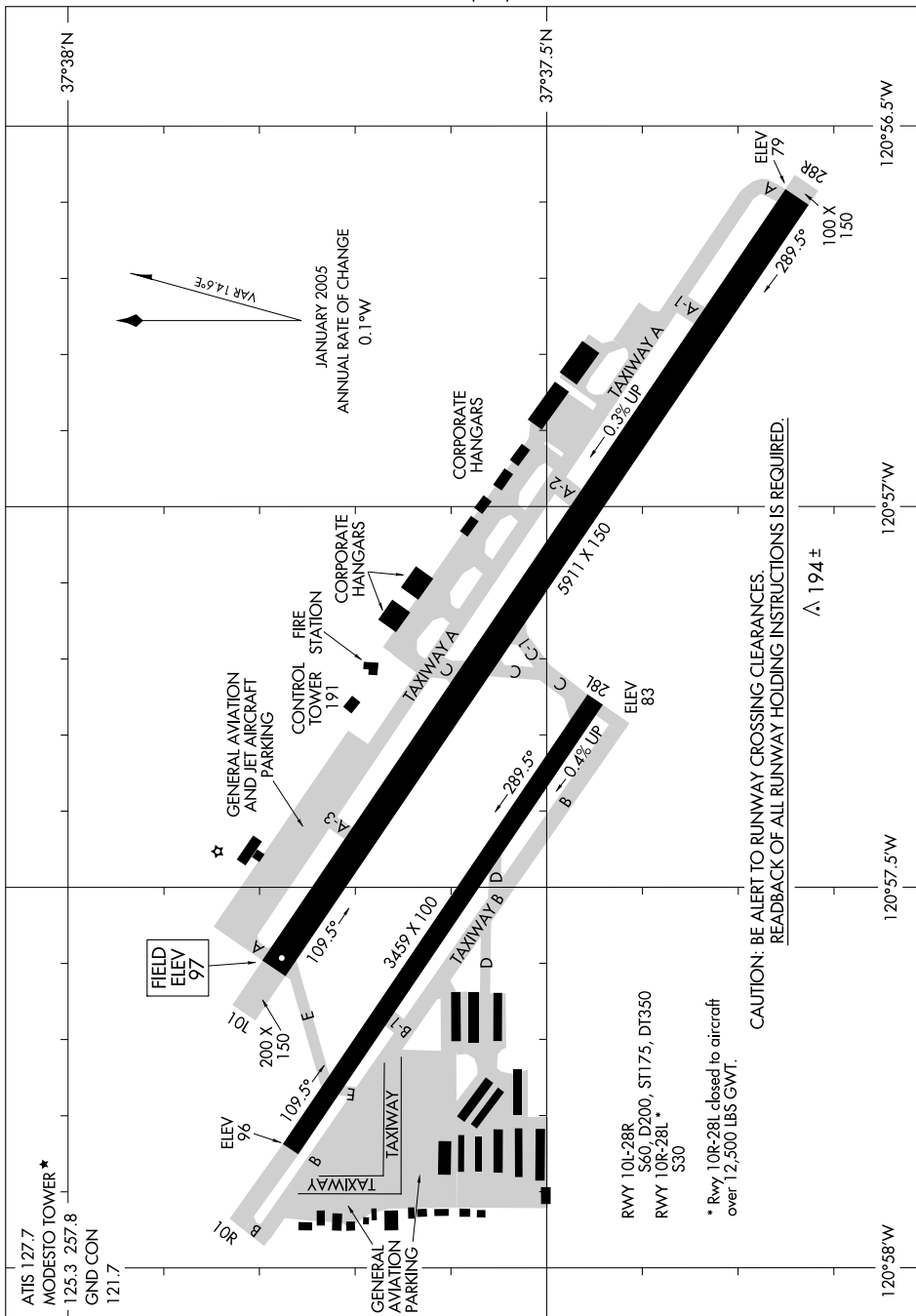


800		3000	HYP	VOR/DME	
				3000	
114.2		HYP 10.6	CEKPA HYP 7	305°	
11.6		1700	≤ 2.98°	Procedure Turn NA	
1 NM		3.6 NM	7 NM		
CATEGORY	A	B	C	D	
S-31	560-½ 379 (400-½)			560-1 379 (400-1)	
CIRCLING	640-1 449 (500-1)	660-1 469 (500-1)	660-1½ 469 (500-1½)	760-2 569 (600-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

MODESTO CITY-COUNTY HARRIS SHAM FIELD (MOD)
MODESTO, CALIFORNIA



WAAS CH 70609 W28A	APP CRS 288°	Rwy Idg TDZE Apt Elev	5911 88 97
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RNAV (GPS) RWY 28R

MODESTO CITY-COUNTY-HARRY SHAM FIELD (MOD)

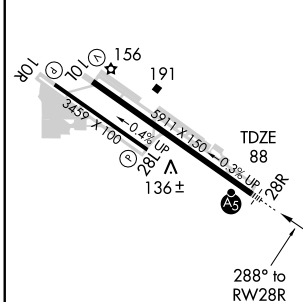
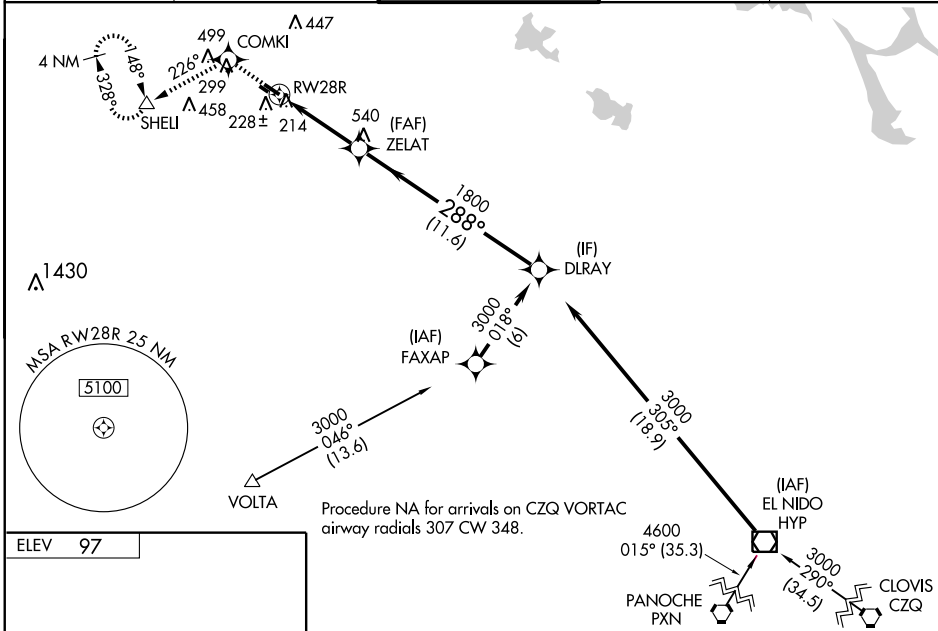
- T** For inoperative MALSR, increase LPV visibility to 1 mile all Cats and LNAV Cat D to 1 1/4 mile.
- A** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.
- When local altimeter setting not received, use Atwater/Castle altimeter setting and increase all DA/MDA 80 feet; increase LPV, LNAV/VNAV visibilities 1/4 mile all Cats and LNAV Cat C visibility 1/4 mile.
- Baro-VNAV and VDP NA when using Atwater/Castle altimeter setting.
- For inoperative MALSR, when using Atwater/Castle altimeter setting, increase LPV visibility to 1 1/4 mile all Cats.

MALS

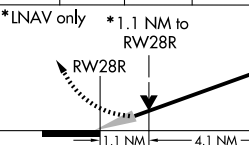


MISSED APPROACH: Climb to 3000 direct COMKI and left turn via 226° track to SHELL and hold, continue climb-in-hold to 3000.

ATIS 127.7	NORCAL APP CON 120.95 269.45	MODESTO TOWER★ 125.3(CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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REIL Rwy 10L **L**
MIRL Rwy 10R-28L
HIRL Rwy 10L-28R

   		ZELAT		DLRAY	
*LNAV only 		*1.1 NM to RW28R 1.1 NM 4.1 NM		3000 Procedure Turn NA GS 3.00° TCH 53	
CATEGORY		A	B	C	D
LPV DA	385-1/2		297 (300-1/2)		
LNAV/VNAV DA	495-1		407 (400-1)		
LNAV MDA	480-1/2		392 (400-1/2)		480-1 392 (400-1)
CIRCLING	540-1 443 (500-1)	560-1 463 (500-1)	560-1 1/2 463 (500-1 1/2)		660-2 563 (600-2)

VOR/DME MOD 114.6 Chan 93	APP CRS 287°	Rwy Idg 5911 TDZE 88 Apt Elev 97
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VOR/DME RWY 28R

MODESTO CITY-COUNTY-HARRY SHAM FIELD (MOD)

T For inoperative MALSR increase S-28R Cat. D visibility to 1 ¼.

MALSR

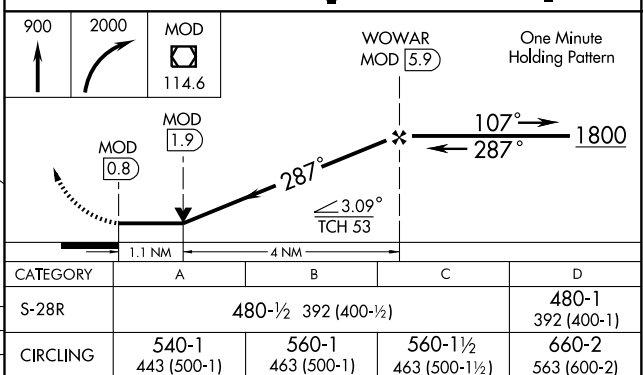
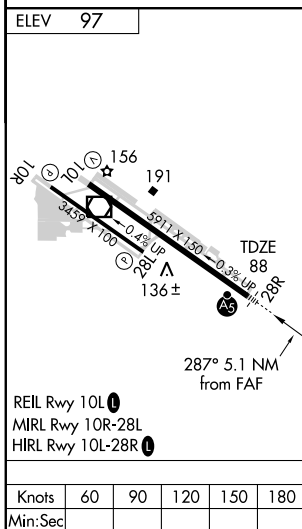
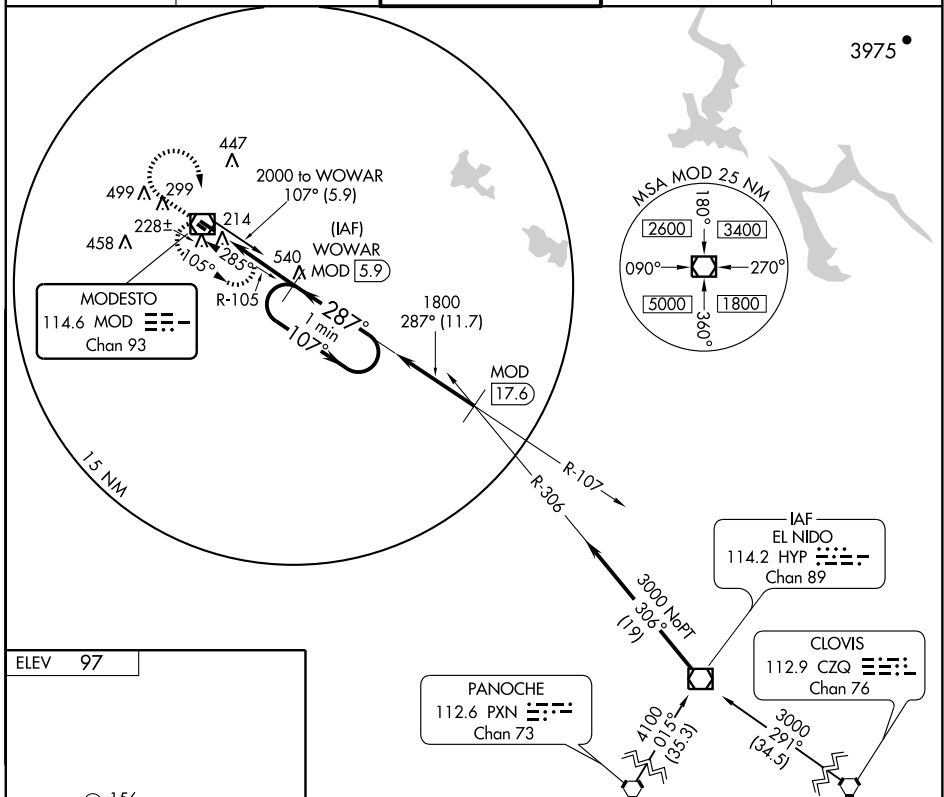
MISSED APPROACH: Climb to 900 then climbing right turn to 2000 direct MOD VOR/DME and hold.

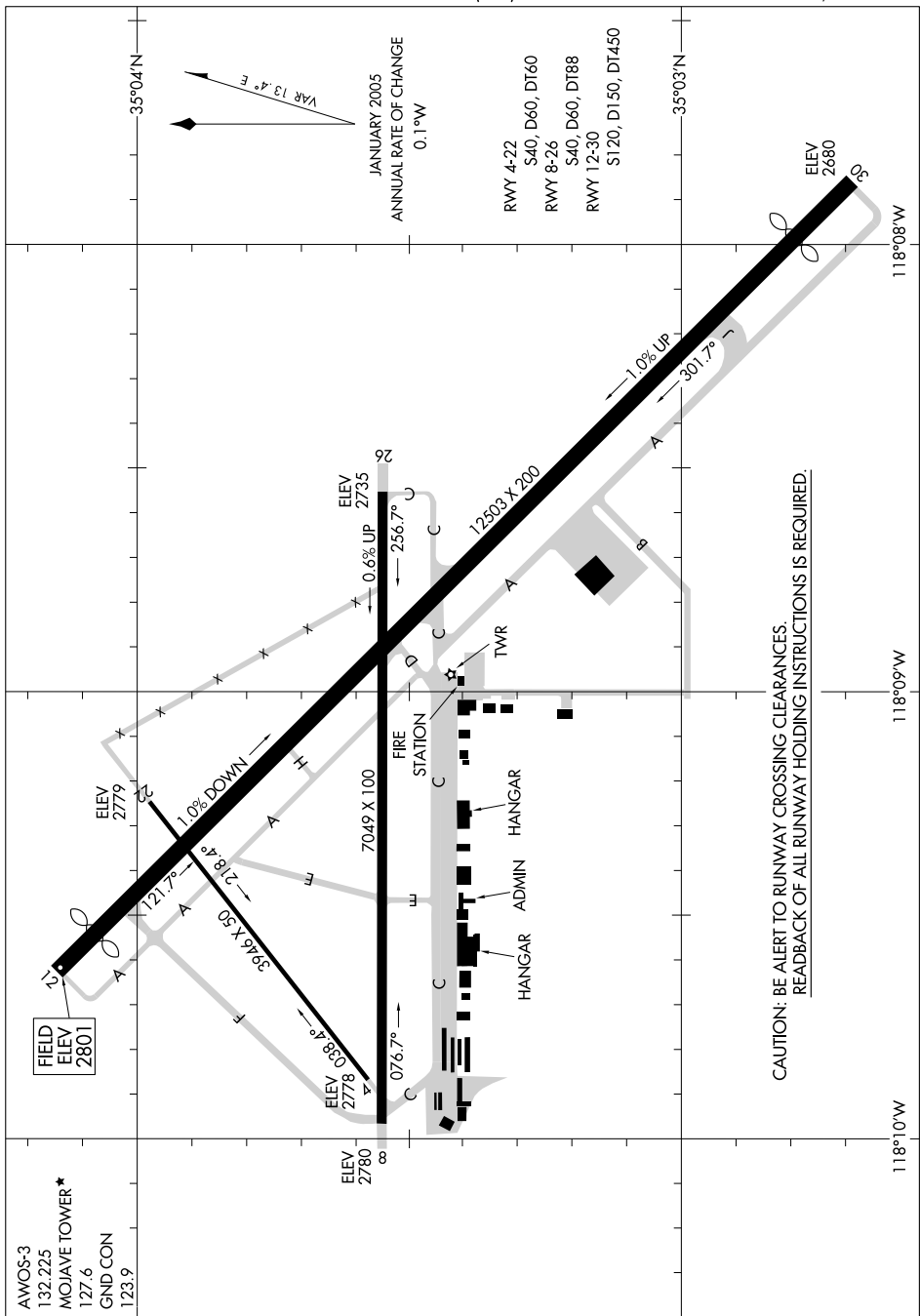
ATIS
127.7

NORCAL APP CON
120.95 269.45

MODESTO TOWER ★
125.3 (CTAF) **L** 257.8

GND CON
121.7

UNICOM
122.95



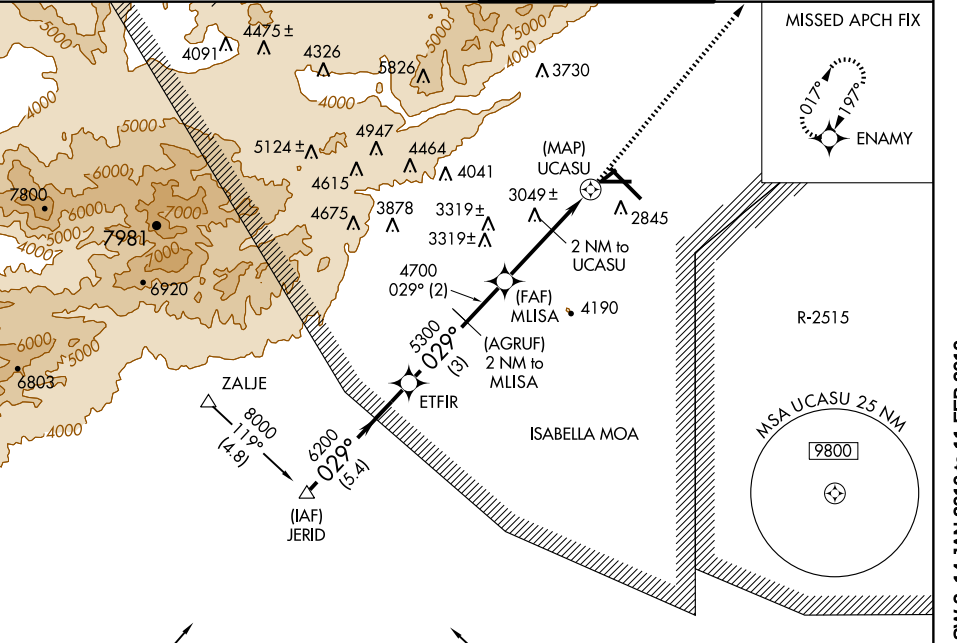
▼

▲NA

Use Edwards AFB altimeter setting.
Circling SE of runway 4-22 not authorized.
Procedure NA at night.

MISSED APPROACH: Climb to 6600
direct ENEMY WP and hold.

AWOS-3 132.225	JOSHUA APP CON 133.65 348.7	MOJAVE TOWER★ 127.6 (CTAF) 0	GND CON 123.9
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LAKE HUGHES LHS

8000 029° (1.5)

PALMDALE PMD

8000 299° (2.2)

JERID

8000 029°

6200 029° (5.4)

5300 029° (3)

4700 029° (2)

3760 029° (0.5)

UCASU

6600

ENEMY

CATEGORY	A	B	C	D
S-4	3420-1	642 (700-1)	3420-1¾ 642 (700-1¾)	NA
CIRCLING	3520-1	729 (800-1)	3520-2 729 (800-2)	NA

ELEV 2791

TDZE 2778

TWR

2946 X 50

7049 X 100

12503 X 200

0.6% UP

0.6% DOWN

1.0% DOWN

1.0% UP

REIL Rwy 12 and 30 0

MIRL Rwy 8-26 0

HIRL Rwy 12-30 0

SW-3. 14 JAN 2010 to 11 FEB 2010

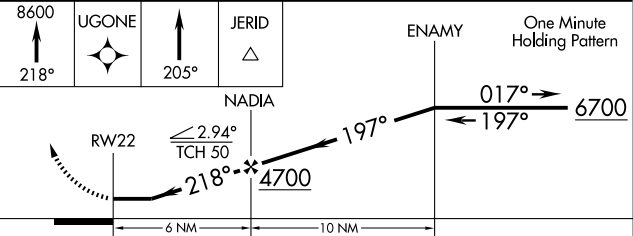
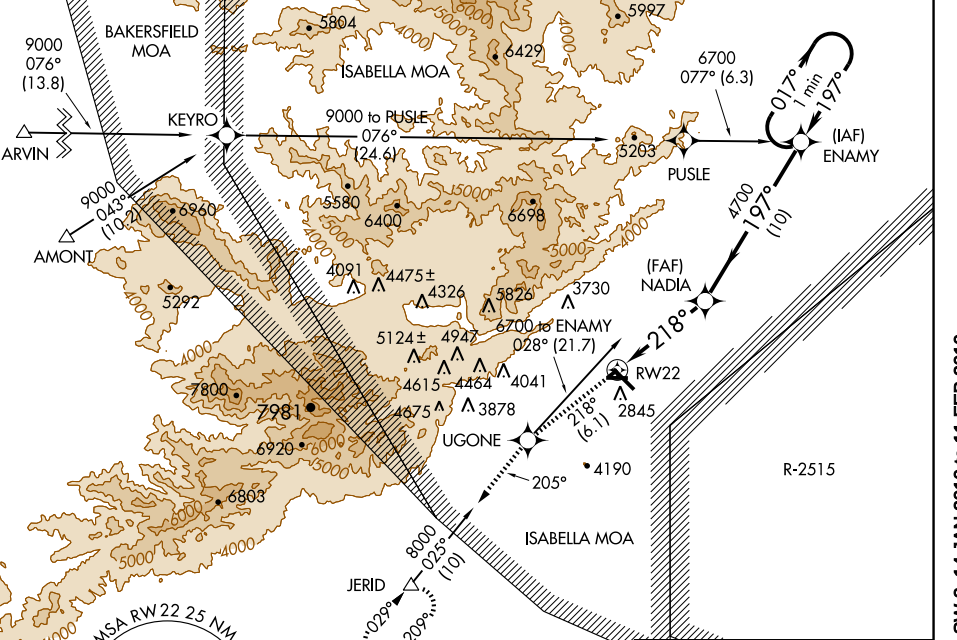
▼

▲NA

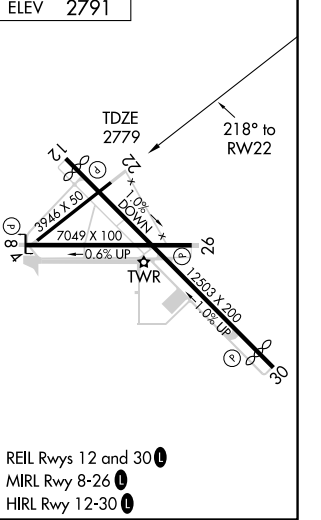
Use Edwards AFB altimeter setting.
Circling SE of runway 4-22 not authorized.
Procedure NA at night.

MISSED APPROACH: Climb to 8600 via course 218° to
UGONE WP then via course 205° to JERID WP and hold.

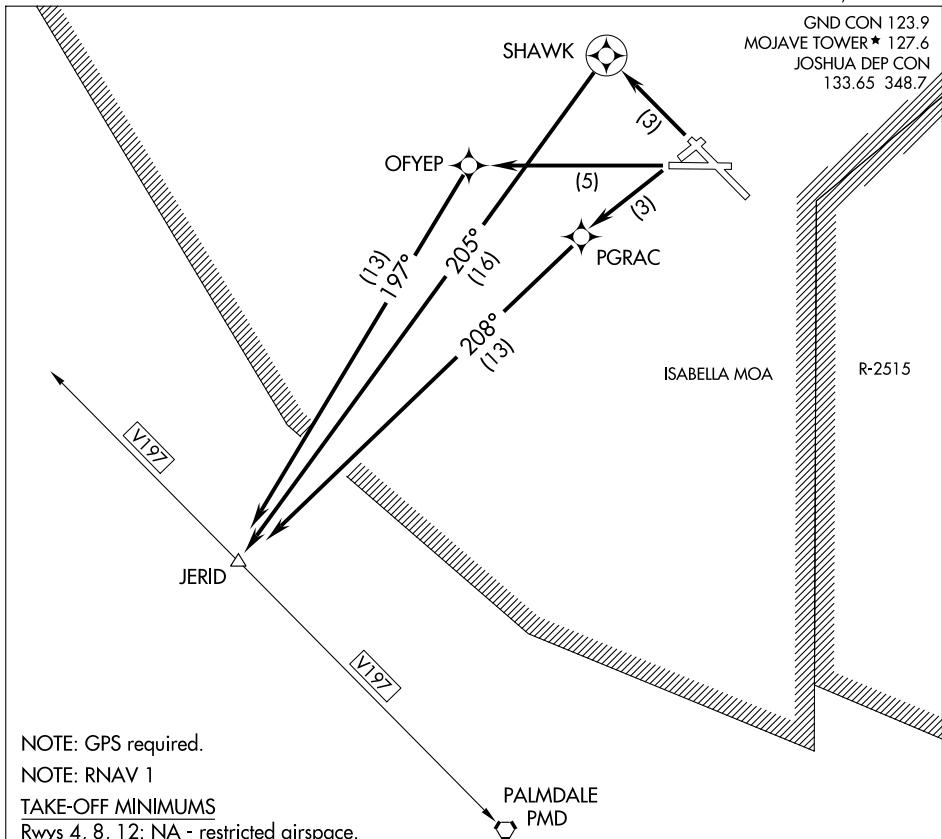
AWOS-3 132.225	JOSHUA APP CON 133.65 348.7	MOJAVE TOWER ★ 127.6 (CTAF) 0	GND CON 123.9
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CATEGORY	A	B	C	D
S-22	3820-1¼ 1041 (1100-1¼)	3820-1½ 1041 (1100-1½)	3820-3 1041 (1100-3)	NA
CIRCLING	3820-1¼ 1029 (1100-1¼)	3820-1½ 1029 (1100-1½)	3820-3 1029 (1100-3)	NA



JERID THREE DEPARTURE (RNAV)



NOTE: GPS required.

NOTE: RNAV 1

TAKE-OFF MINIMUMS

Rwys 4, 8, 12: NA - restricted airspace.

Rwys 22, 26: Standard.

Rwy 30: Standard with a minimum climb of 480' per NM to 5300.

NOTE: Aircraft departing Rwys 22, 26, 30 northwest bound on V197:
Standard with a minimum climb of 480' per NM to 7600.

TAKE-OFF OBSTACLE NOTES

Rwy 30: Vehicle on road 3181' from DER, 22' right of centerline 17' AGL/2896' MSL.

Train 1441' from DER, 351' right of centerline, 23' AGL/2882' MSL.

Rwy 22: Tower 1519' from DER, 150' left of centerline, 80' AGL/2849' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 22: Climb direct PGRAC, then via 208° track to JERID, thence....TAKE-OFF RUNWAY 26: Climb direct OFYEP, then via 197° track to JERID, thence....TAKE-OFF RUNWAY 30: Climb direct SHAWK, then climbing left turn via 205° track to JERID, thence....

....maintain 10000, expect filed altitude 10 minutes after departure.

NDB MOG	APP CRS	Rwy Idg	N/A
<u>404</u>	352°	TDZE	N/A
		Apt Elev	2648

NDB or GPS-A

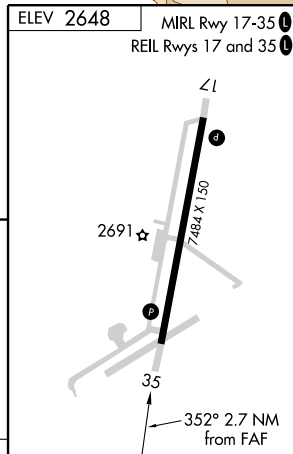
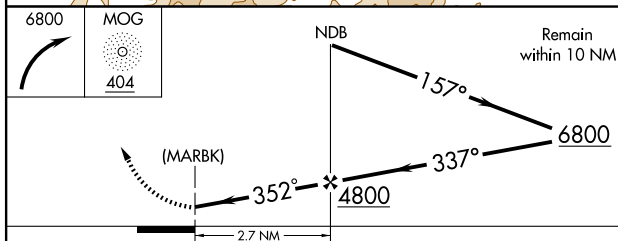
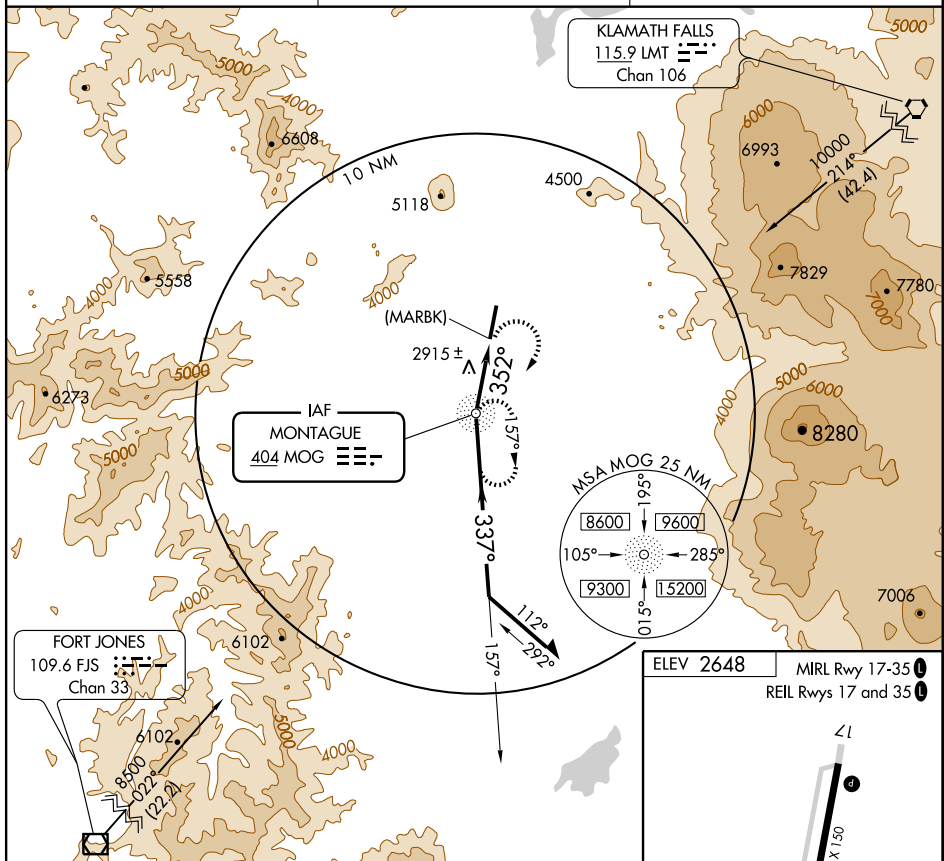
MONTAGUE/ SISKIYOU COUNTY (SIY)

T	Use Siskiyou County altimeter setting; when not available,
A NA	use Montague-Yreka Rohrer Field altimeter setting; when neither received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 6800 direct MOG NDB and hold.

ASOS
121.125

SEATTLE CENTER
124.85 306.3

UNICOM
123.0 (CTAF) 

CATEGORY	A	B	C	D	FAF to MAP 2.7 NM					
CIRCLING	3760-1¼ 1112 (1200-1¼)	3760-1½ 1112 (1200-1½)	3760-3	1112 (1200-3)	Knots	60	90	120	150	180
	Min:Sec	2:42			1:48	1:21	1:05	0:54		



CARMEL VISUAL RWY 28L

MONTEREY PENINSULA (MRY)
MONTEREY, CALIFORNIA

ATIS 119.25
NORCAL APP CON
133.0 251.15 (360°-150°)
127.15 307.125 (151°-359°)
MONTEREY TOWER ★
118.4 (CTAF) 257.8
GND CON
121.9 348.6
CLNC DEL
135.45
UNICOM
122.95

MONTEREY BAY

ROUTE 1

POINT PINOS



LIGHTHOUSE

LOM

MUNSO

385 MR

At or Above 3000

10R

10L

28R

28L

At or Above 3000
until abeam airport on
left downwind Runway 28L

CARMEL
BAY

ROUTE 1

CARMEL VALLEY ROAD

2249



PINYON PEAK

PALO

CORONA 3181



RADAR REQUIRED

Weather Minimums: 3500 feet
ceiling and 5 miles visibility.

Vertical Guidance Navaid
and Angle: VASI (V4L)-3.5°

1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
------	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

CARMEL VISUAL APPROACH RWY 28L
PROCEDURE NOT AUTHORIZED AT NIGHT

APP CRS 264°	Rwy Idg TDZE Apt Elev	3513 253 254
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GPS RWY 28R
MONTEREY PENINSULA (MRY)

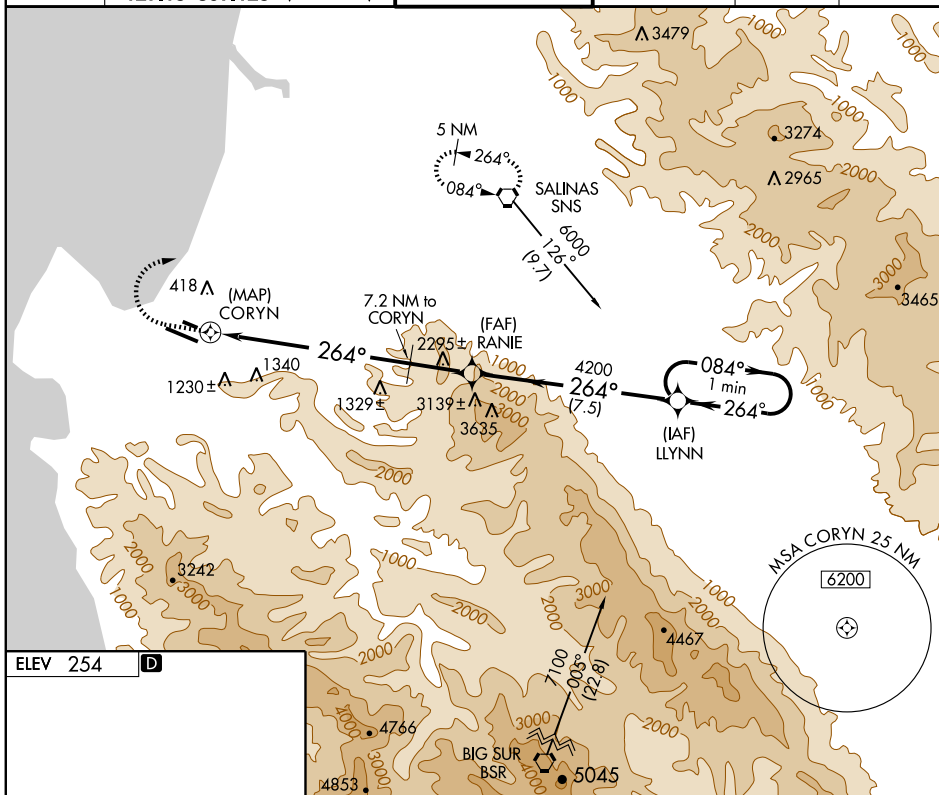
T	Circling not authorized south of Rwy 10R-28L.
A NA	When tower closed, straight-in minimums not authorized.

MISSED APPROACH: Climb to 1900, then climbing right turn to 6000 direct SNS VORTAC and hold.

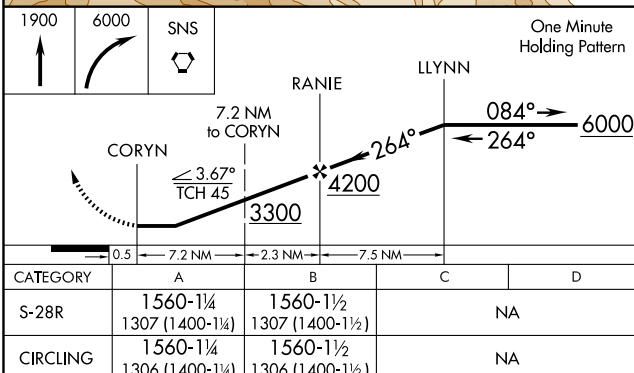
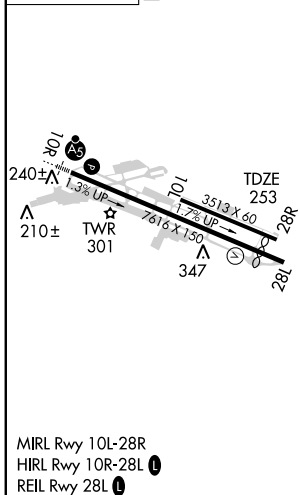
ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)
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MONTEREY TOWER ★
118.4 (CTAF) **L** 257.8

GND CON
121.9 348.6

CLNC DEL
135.45UNICOM
122.95

ELEV	254	D
------	-----	---



LOC/DME I-MRY

110.7

Chan 44

APP CRS

098°

Rwy Idg TDZE

7616

193

Apt Elev

257

⚠

⚠

Circling not authorized south of Runway 10R-28L.

ILS unusable from MM inbound.

Auto pilot coupled approach not authorized.

For inoperative MALSR, increase S-ILS 10R to RVR 5000.

MALSR

MISSED APPROACH: Climb to 740, then climbing left turn to 5000 via heading 030° and SNS R-243 to SNS VORTAC and hold.

ATIS	NORCAL APP CON	MONTEREY TOWER ★	GND CON	CLNC DEL	UNICOM
119.25	133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	118.4 (CTAF) 0 257.8	121.9 348.6	135.45	122.95

CATEGORY	A	B	C	D
S-ILS 10R		480/24	287 (300-½)	
S-LOC 10R	900/24	707 (700-½)	900-1½ 707 (700-½)	900-1¾ 707 (700-1¾)
CIRCLING	900-1	643 (700-1)	900-2 643 (700-2)	1080-2¾ 823 (900-2¾)

ELEV 257

D

098° 4.3 NM from FAF

10R

240±

1.3% UP

3513 X 60

1.7% UP

7616 X 150

347

28R

28L

TDZE 193

TWR 301

SNS R-243 117.3

5000

740

030°

ILS unusable from MM inbound.

I-MRY 3.4

MM I-MRY 1.8

1606

1700

2100

098°

278°

GS 3.00°

TCH 52

MIRL Rwy 10L-28R

HIRL Rwy 10R-28L

REIL Rwy 28L

FAF to MAP 3.8 NM

Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

SW-2, 14 JAN 2010 to 11 FEB 2010

LOBOS VISUAL RWY 10R

MONTEREY PENINSULA (MRY)
MONTEREY, CALIFORNIA

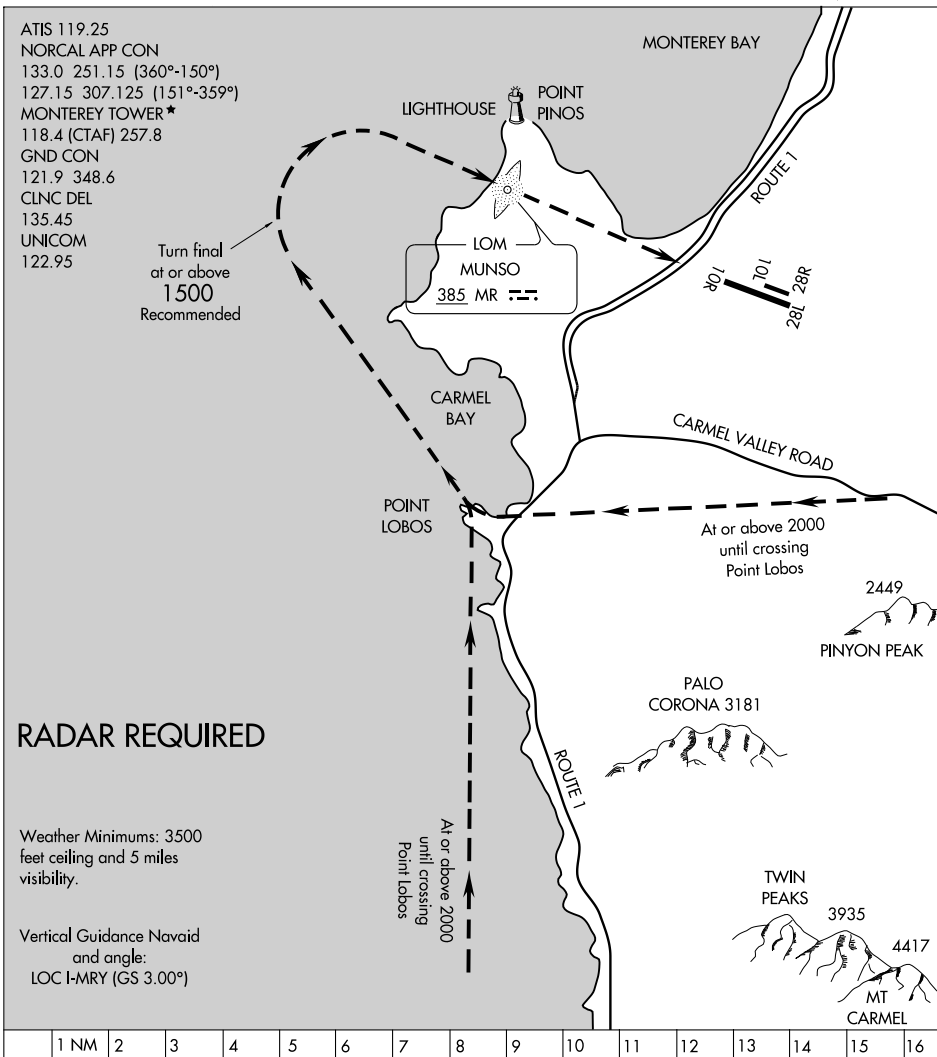
ATIS 119.25
NORCAL APP CON
133.0 251.15 (360°-150°)
127.15 307.125 (151°-359°)
MONTEREY TOWER ★
118.4 (CTAF) 257.8
GND CON
121.9 348.6
CLNC DEL
135.45
UNICOM
122.95

Turn final
at or above
1500
Recommended

RADAR REQUIRED

Weather Minimums: 3500
feet ceiling and 5 miles
visibility.

Vertical Guidance Navaid
and angle:
LOC I-MRY (GS 3.00°)



LOBOS VISUAL APPROACH RWY 10R
PROCEDURE NOT AUTHORIZED AT NIGHT

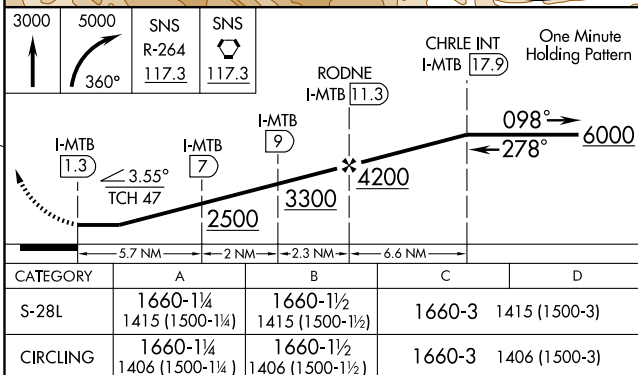
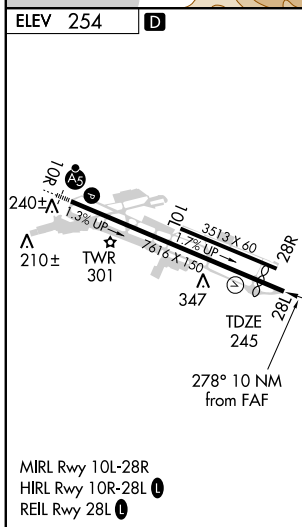
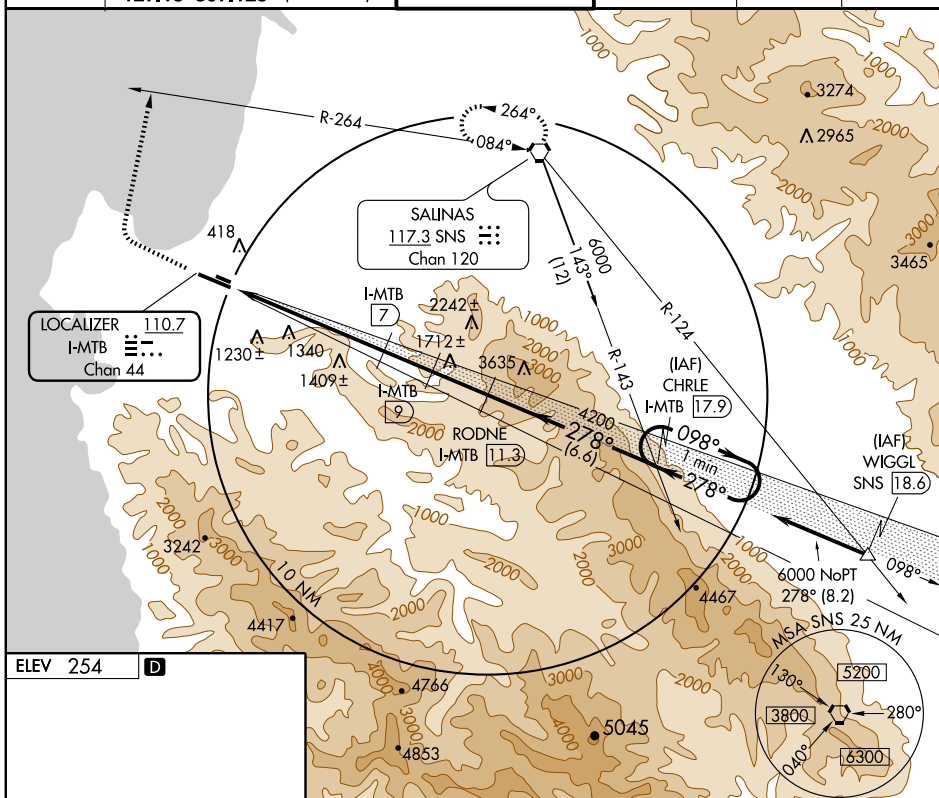
LOC/DME I-MTB <u>110.7</u> Chan 44	APP CRS 278°	Rwy Idg 6616 TDZE 245 Apt Elev 254
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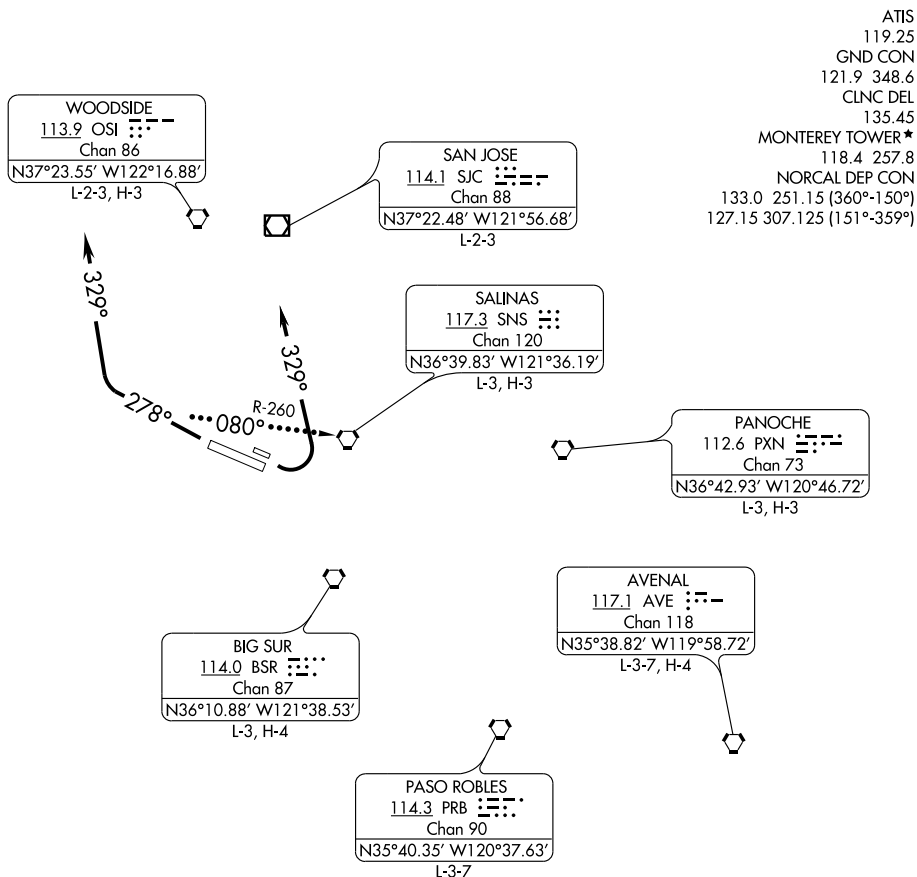
LOC/DME RWY 28L
MONTEREY PENINSULA (MRY)

T Circling not authorized south of Rwy 28L.
A Procedure NA when control tower closed.

MISSED APPROACH: Climb straight ahead to 3000 then climbing right turn to 5000 via heading 360° and SNS R-264 to SNS VORTAC and hold.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER ★ 118.4 (CTAF) 0 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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TAKE-OFF MINIMUMS

Rwy 10R: Standard with a minimum climb of 451' per NM to 1900.

Rwy 10L: Standard with a minimum climb of 428' per NM to 1900.

Rwy 28L: Standard with a minimum climb of 310' per NM to 1100.

Rwy 28R: Standard with a minimum climb of 240' per NM to 1100.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climbing left turn heading 329°. Thence. . .

TAKE-OFF RUNWAY 28L/R: Climb heading 278° until leaving 1100' or as directed by Monterey Tower. Then climbing right turn heading 329°. Thence. . .

. . . all aircraft expect vectors to assigned route/fix. Altitude will be assigned by ATC. Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for one minute after departure, proceed via SNS R-260 to SNS VORTAC, then via assigned fix/route. Climb to 6000' or assigned altitude, whichever is higher.

TAKE-OFF OBSTACLE NOTES

Rwy 10R: OL on DME 64' from DER, 284' left of centerline, 12' AGL/272' MSL.

Tree 1.7 NM from DER, 2318' right of centerline, up to 100' AGL/859' MSL.

Rwy 10L: OL on DME 555' from DER, 217' right of centerline, 12' AGL/272' MSL.

Tree 1.8 NM from DER, 2817' right of centerline, up to 100' AGL/859' MSL.

Rwy 28R: Airplane 6' from DER, 179' left of centerline, 64' AGL/263' MSL.

Rwy 28L: Tree 743' from DER, 619' left of centerline, up to 100' AGL/240' MSL.

Tree 2.9 NM from DER, 2298' left of centerline, up to 100' AGL/640' MSL.

Tree 2.9 NM from DER, 4578' left of centerline, 114' AGL/853' MSL.

MOSS LANDING VISUAL RWY 28L

AL-271 (FAA)

MONTEREY PENINSULA (MIRY)

MONTEREY, CALIFORNIA

ATIS 119.25
 NORCAL APP CON
 133.0 251.15 (360°-150°)
 127.15 307.125 (151°-359°)
 MONTEREY TOWER ★
 118.4 (CTAF) 257.8
 GND CON
 121.9 348.6
 CLNC DEL
 135.45

✈ WATSONVILLE
 (WVI)

MOSS LANDING
 SMOKE STACKS

SALINAS RIVER
 MOUTH

5000' Recommended Altitude
 to Salinas Airport

RADAR REQUIRED

Weather minima: 3500 feet ceiling and 5 miles visibility.
 Vertical Guidance Navaid and Angle: VASI (V4L)-GA 3.50° TCH 47'

MONTEREY BAY

MARINA MUNI
 (OAR)

PARACHUTE
 JUMPING AREAS

Recommended
 At or above
 2500

SANTA RITA
 Recommended
 At or above
 5000

SALINAS
 117.3 SNS
 Chan 120

SALINAS MUNI
 (SNS)

SPRECKLES
 PLANT

3500

LAGUNA SECA
 RACE TRACK

IFR Enroute Low Altitude: US L-2

VFR Sectional Aeronautical Chart (San Francisco)

NM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
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MOSS VISUAL APPROACH RWY 28L
PROCEDURE NOT AUTHORIZED AT NIGHT
PROCEDURE NOT AUTHORIZED
WHEN CONTROL TOWER CLOSED

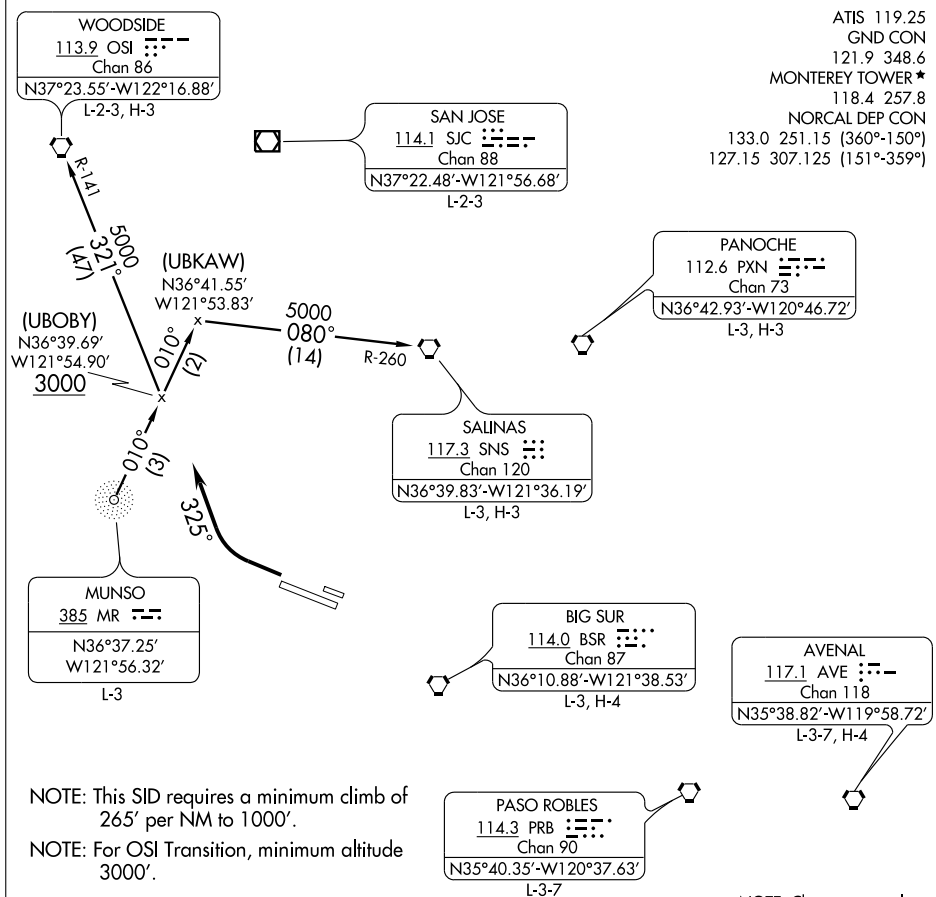
NOTES: Due to practice approaches to RWY 10R, RWY 28L LOC not always activated during VFR conditions.

MUNSO TWO DEPARTURE

SL-271 (FAA)

MONTEREY PENINSULA (MRY)

MONTEREY, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 28L/R: After leaving 1000', or as directed by tower, turn right heading 325° and join the 010° bearing from MUNSO NDB, thence via assigned route or transition. Maintain 6000'. Expect clearance to filed altitude five minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for one minute after departure, proceed direct SNS VORTAC, then via assigned fix/route. Climb to 6000' or assigned altitude, whichever is higher.

SALINAS TRANSITION (MR2.SNS): From over MUNSO NDB via MR 010° bearing and SNS R-260 to SNS VORTAC.

WOODSIDE TRANSITION (MR2.OSI): From over MUNSO NDB via MR 010° bearing and OSI R-141 to OSI VORTAC.

PEBBS ONE ARRIVAL

ST-271 (FAA)

MONTEREY PENINSULA
MONTEREY, CALIFORNIA

ATIS

119.25

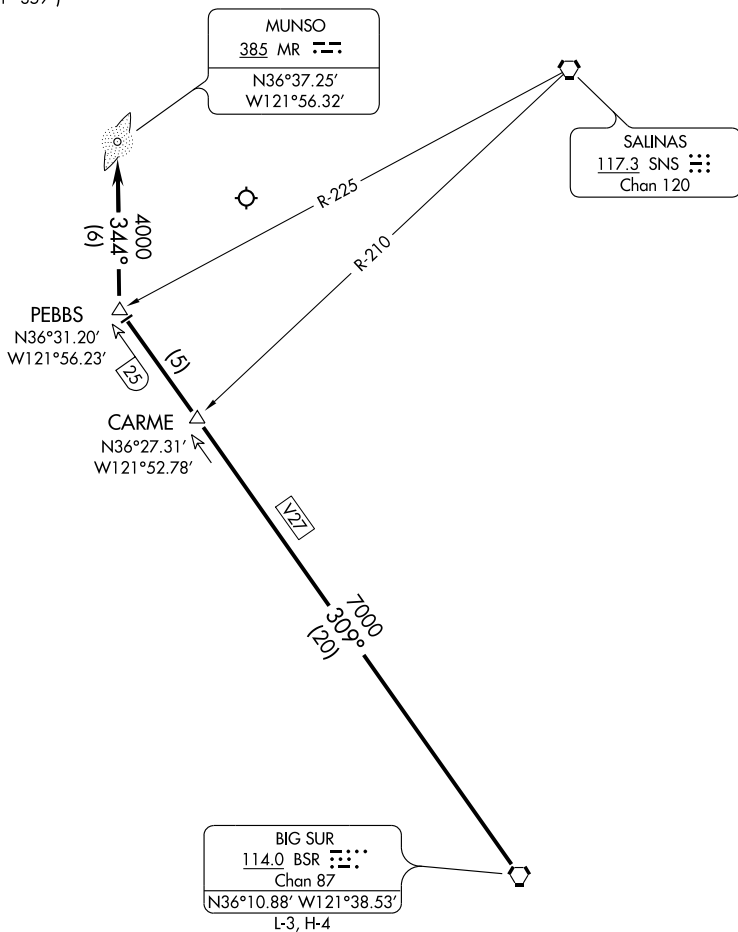
NORCAL APP CON

133.0 251.15 (360°-150°)

127.15 307.125 (151°-359°)

OAKLAND CENTER

128.7 307.0



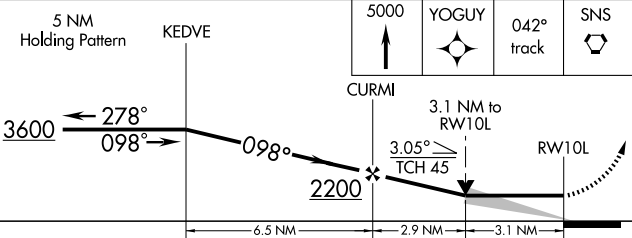
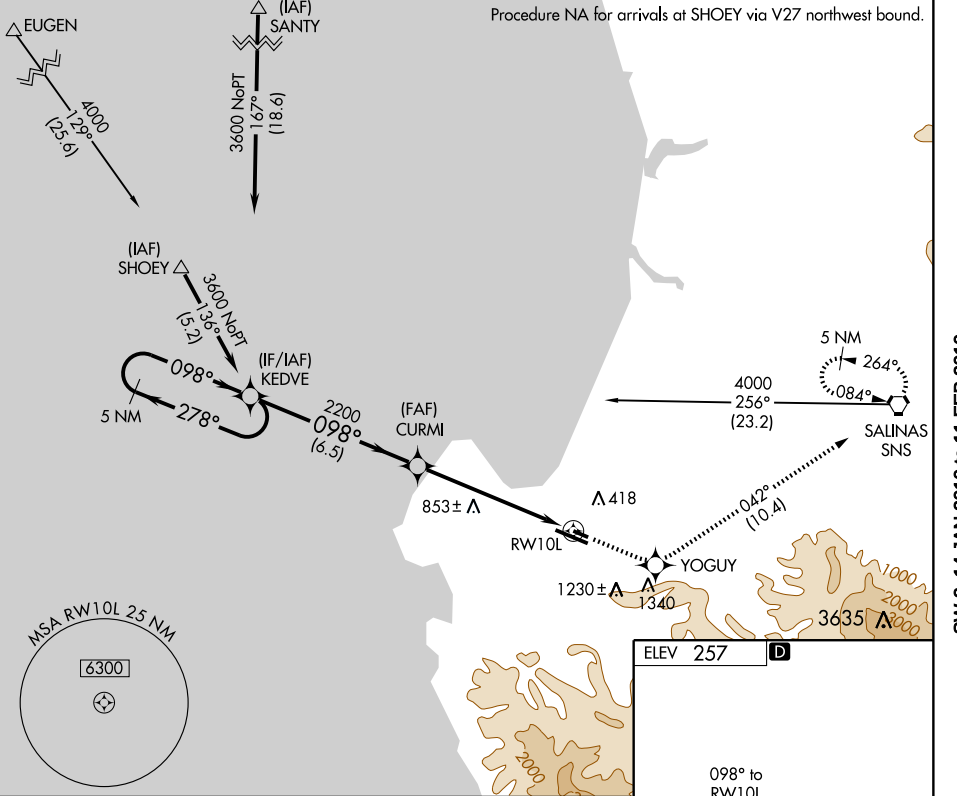
NOTE: ADF required

From over BSR VORTAC via BSR R-309 to PEBBS Int/DME Fix, thence via 344° course to MUNSO LOM. Expect ILS Runway 10R Approach.

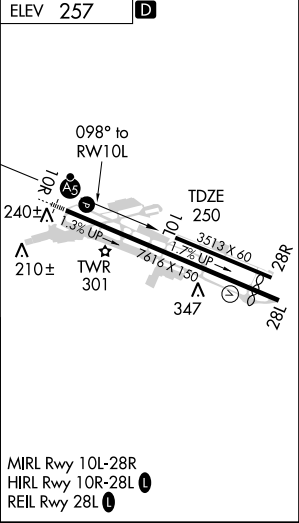
⚠ Circling NA south of Rwy 10R-28L.
⚠ DME/DME RNP-0.3 NA.
When control tower closed, straight-in minimums NA.

MISSED APPROACH: Climb to 5000 direct YOGUY and via 042° track to SNS VORTAC and hold, continue climb-in-hold to 5000.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER★ 118.4 (CTAF) 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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CATEGORY	A	B	C	D
RNAV MDA	1260-1¼ 1010 (1100-1¼)	1260-1½ 1010 (1100-1½)		NA
CIRCLING	1260-1¼ 1003 (1100-1¼)	1260-1½ 1003 (1100-1½)		NA



APP CRS	Rwy Idg	7616
098°	TDZE	193
	Apt Elev	257

⚠

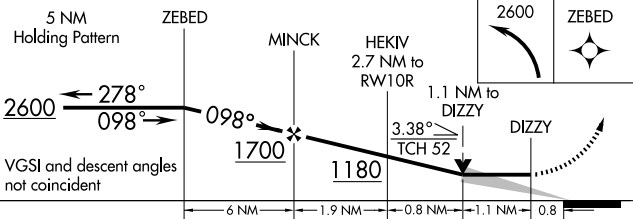
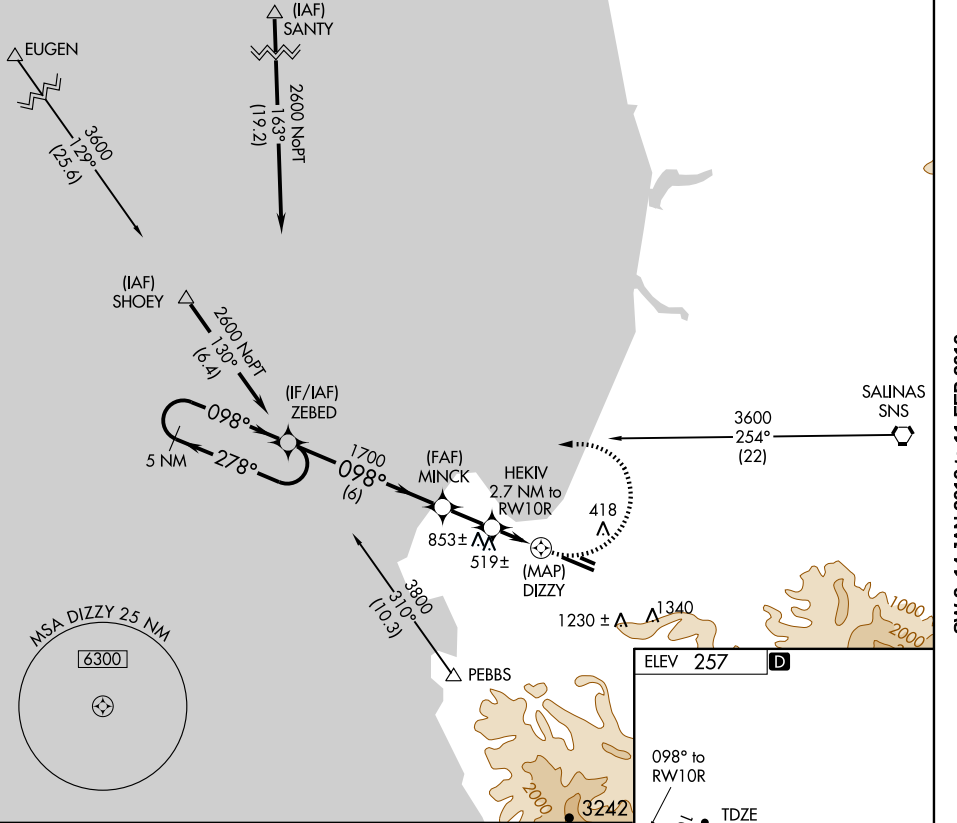
⚠

Circling NA south of Rwy 10R-28L.
DME/DME RNP -0.3 NA.

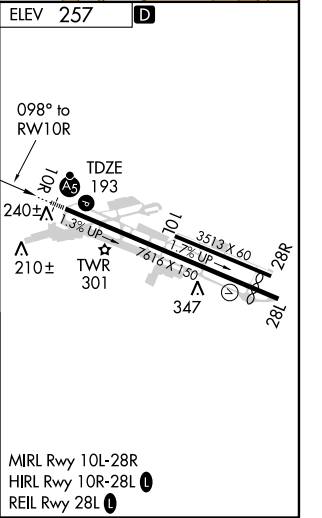
MALSR

MISSED APPROACH: Climbing left turn to 2600 direct ZEBED and hold.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER★ 118.4 (CTAF) 0 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	800/24	607 (600-½)	800/60 607 (600-1¼)	800-1½ 607 (600-1½)
CIRCLING	800-1	543 (600-1)	840-1¾ 583 (600-1¾)	1080-2¾ 823 (900-2¾)



MIRL Rwy 10L-28R
HIRL Rwy 10R-28L
REIL Rwy 28L

▼

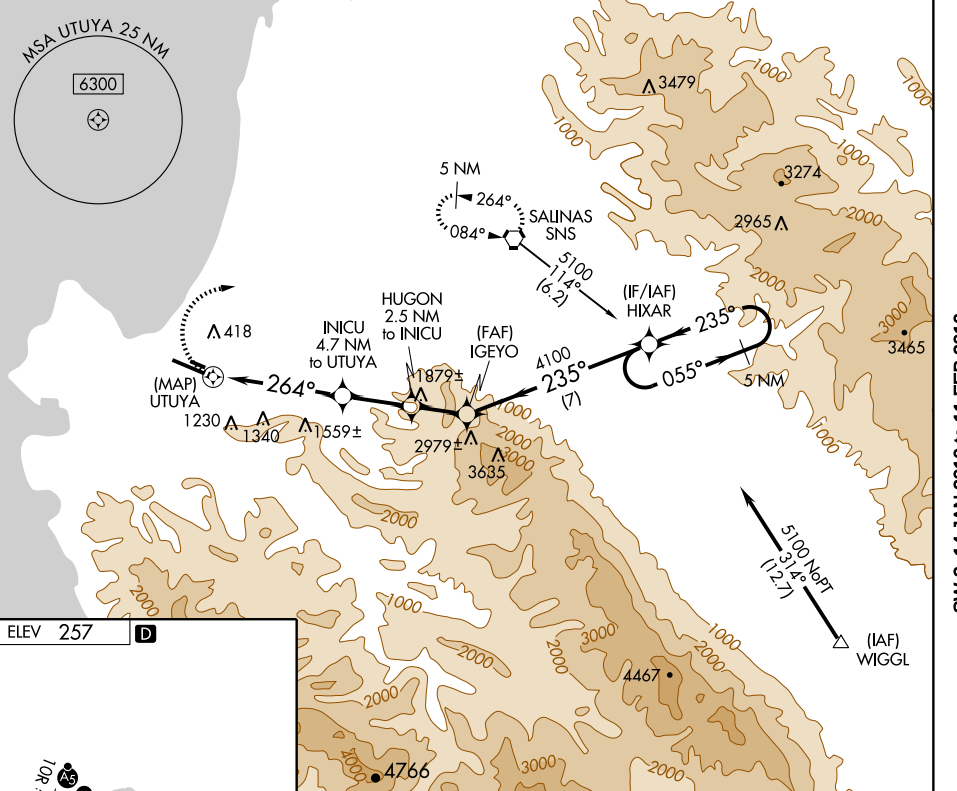
▲

Circling NA south of Rwy 10R-28L.
DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 6000 direct to SNS VORTAC and hold, continue climb-in-hold to 6000.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER★ 118.4 (CTAF) 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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Procedure NA for arrivals on SNS VORTAC airway radials 068 CW 167.



ELEV 257

D

10R

240±

210±

3513X60

1.75% UP

7616X150

347

TDZE 247

28L

301

TWR

10R

1.3% UP

AS

MIRL Rwy 10L-28R

HIRL Rwy 10R-28L

REIL Rwy 28L

6000	SNS	VGSI and descent angles not coincident		HIXAR	5 NM Holding Pattern
UTUYA	INICU 4.7 NM to UTUYA	HUGON 2.5 NM to INICU	IGEYO	264°	235°
2300	3300	4100	5100	055°	235°
0.5	4.7 NM	2.5 NM	2 NM	7 NM	
CATEGORY	A	B	C	D	
LNAV MDA	1600-60 1353 (1400-1½)	1600-1½ 1353 (1400-1½)	1600-3 1353 (1400-3)	NA	
CIRCLING	1600-1¼ 1343 (1400-1¼)	1600-1½ 1343 (1400-1½)	1600-3 1343 (1400-3)	NA	

WAAS CH 70699 W10A	APP CRS 098°	Rwy Idg TDZE Apt Elev	7616 193 257
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RNAV (GPS) Z RWY 10R

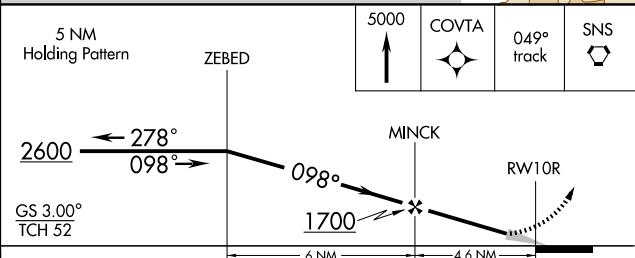
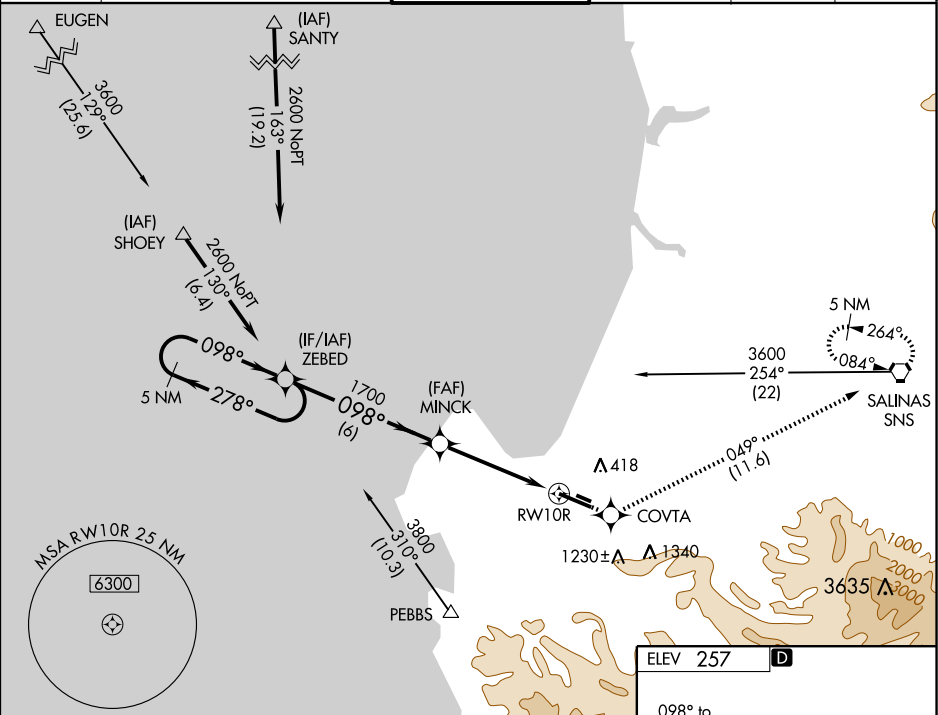
MONTEREY PENINSULA (MRY)

DME/DME RNP-0.3 NA.
For inoperative MALS, increase LPV all Cats
visibility to 1¾ mile.

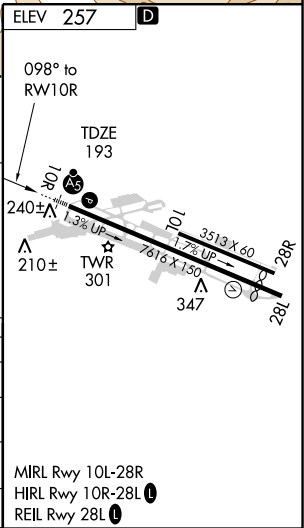


MISSED APPROACH: Climb to 5000 direct COVTA and via 049° track to SNS VORTAC and hold, continue climb-in-hold to 5000.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 (151°-359°)	MONTEREY TOWER ★ 118.4 (CTAF) 257.8	GND CON 121.9 348.6	CLNC DEL 135.45	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	679/60		486 (500-1¼)	
LNAV/ VNAV DA	NA		NA	
LNAV MDA	NA		NA	
CIRCLING	NA		NA	



APP CRS 279°	Rwy Idg TDZE Apt Elev	6616 247 257
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RNAV (RNP) Z RWY 28L

MONTEREY PENINSULA (MRY)

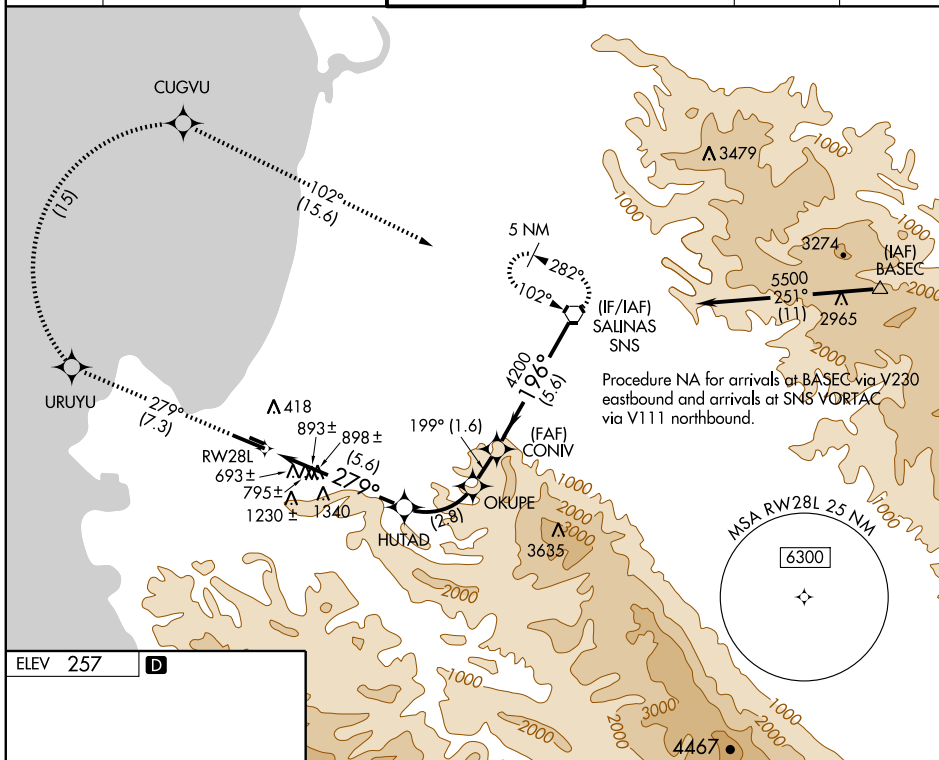
NA RF and GPS required. When VGSI inoperative, RNP 0.30 DA NA at night.
For uncompensated Baro-VNAV systems, procedure NA below 0°C (32°F) or above 39°C (102°F). Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5500 via 279° track to URUYU and via right turn to CUGVU and via 102° track to SNS VORTAC and hold.

ATIS 119.25	NORCAL APP CON 133.0 251.15 (360°-150°) 127.15 307.125 [15]°-359°
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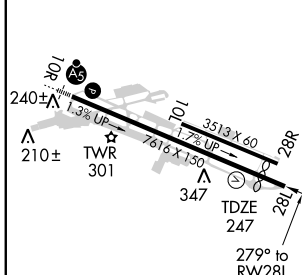
MONTEREY TOWER★
118.4 (CTAF) **Q** 257.8

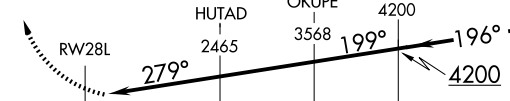
GND CON
121.9 348.6

CLNC DEL
135.45UNICOM
122.95

ELEV	257
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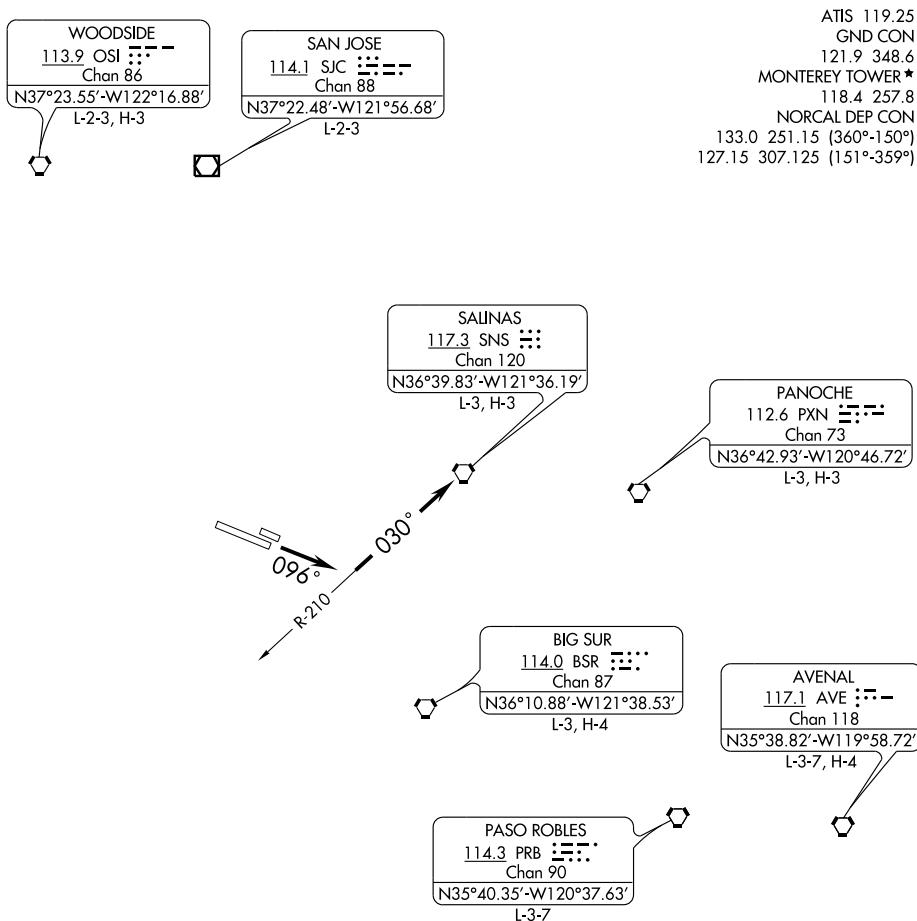
D



5500 ↑ 279°	URUYU 	CUGVU 	102° track	SNS 	CONIV	VORTAC
						Procedure Turn NA <u>5500</u> GP 3.60° TCH 50
CATEGORY	A	B	C	D		
RNP 0.10 DA	497/40	250 (300-¾)			NA	
RNP 0.20 DA	1196-2¾	949 (1000-2¾)			NA	
RNP 0.30 DA	1257-3	1010 (1000-3)			NA	

MIRL Rwy 10L-28R
HIRL Rwy 10R-28L **L**
REIL Rwy 28L **L**

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**



NOTE: This SID requires a minimum climb of 405' per NM to 4000'.

NOTE: Minimum assignable altitude 6000'.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climb via heading 096° and intercept the SNS R-210 to SNS VORTAC, thence via assigned route, maintain 6000'. Expect clearance to filed altitude 5 minutes after departure.

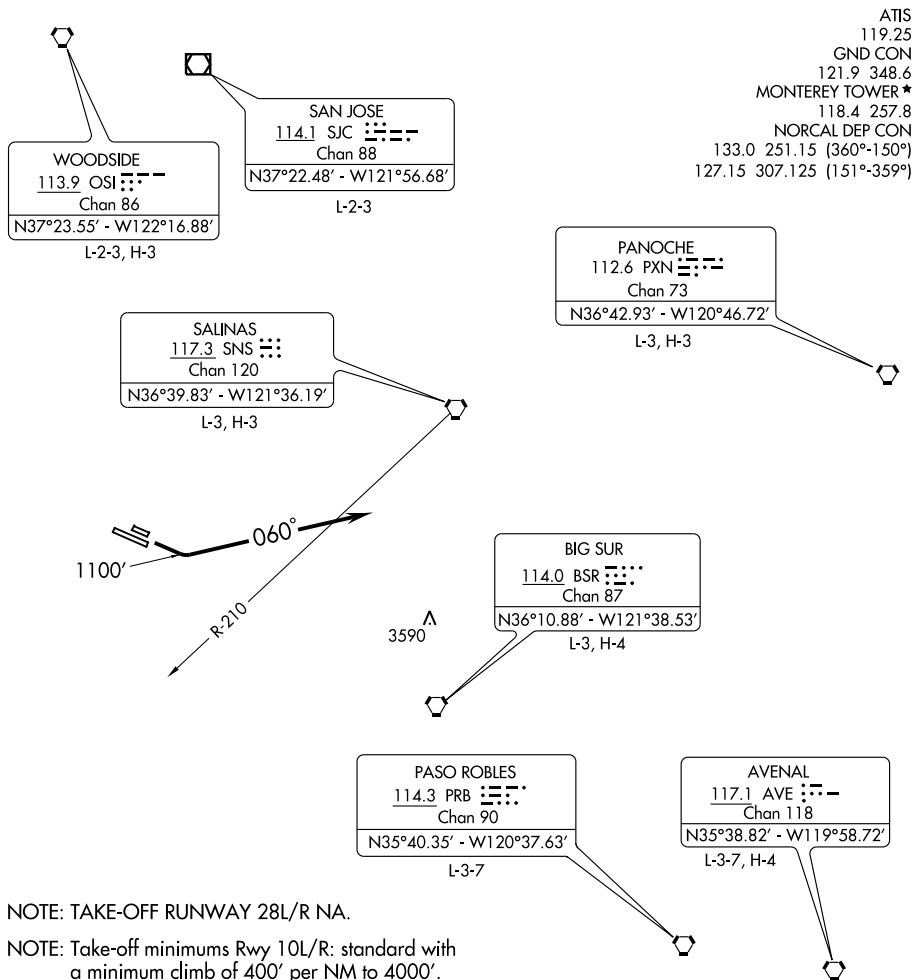
LOST COMMUNICATIONS: If no transmissions received for one minute after departure, proceed to the SNS VORTAC, then via assigned fix/route. Climb to 6000' or assigned altitude, whichever is higher.

TORO FIVE DEPARTURE

09351

SL-271 (FAA)

MONTEREY PENINSULA (MRY)
MONTEREY, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climb runway heading to 1100', then climbing left turn heading 060°. Expect vectors to filed route after passing SNS R-210. Maintain 6000' or assigned higher altitude. Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure climb direct SNS VORTAC, then via assigned fix/route. Maintain 6,000' or assigned higher altitude.

SW-2, 14 JAN 2010 to 11 FEB 2010

ATIS
 124.175 283.0
 MOFFETT TOWER ★
 119.55 346.25
 GND CON —
 121.85 336.4
 CLNC DEL
 380.8

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

37°26'N

VAR 14.7° E

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

RWY 14L-32R
S64, D110, ST144, SBTT410, TDT528, TRT390
RWY 14R-32L
S82, D142, ST175, DT300, DDT609, TDT814

37°25'N

SW-2. 14 JAN 2010 to 11 FEB 2010

122°03'W

FIELD
ELEV
32

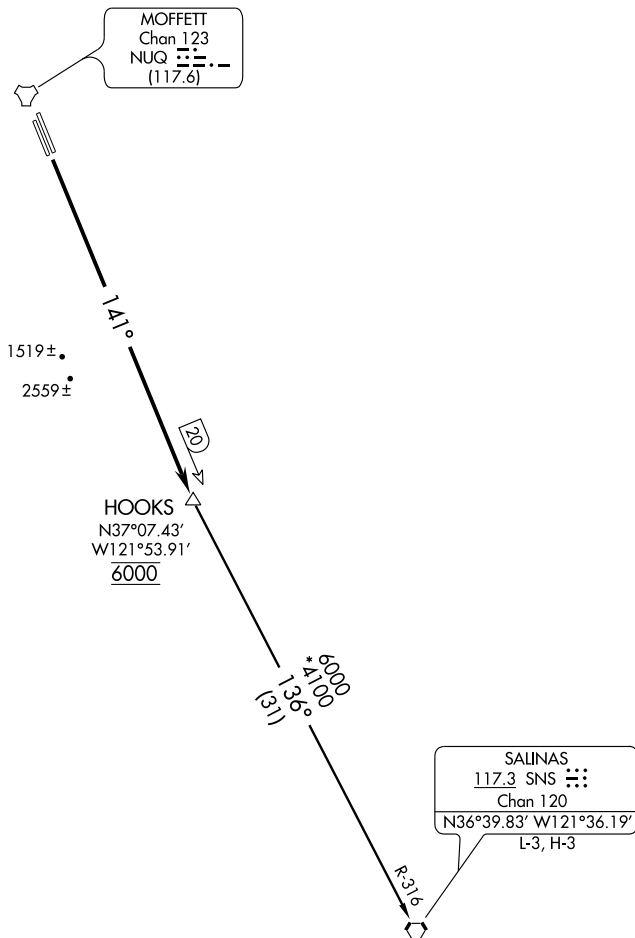
122°02'W

HOOKS ONE DEPARTURE

MOUNTAIN VIEW/ MOFFETT FEDERAL AFLD (NUQ)
SL-410 (FAA)

MOUNTAIN VIEW, CALIFORNIA

ATIS
124.175 283.0
CLNIC DEL
380.8
GND CON
121.85 336.4
MOFFETT TOWER★
119.55 (CTAF) 346.25
NORCAL DEP CON
120.1 290.25



NOTE: TACAN required.

TAKE-OFF MINIMUMS

Rwy 14R/14L: Standard with the following minimum climb gradients:

Rwy 14R: Obstacle climb of 314' per NM to 4900, ATC climb of 332' per NM to 6000.

Rwy 14L: Obstacle climb of 314' per NM to 4900, ATC climb of 328' per NM to 6000.

Rwy 32R/32L: NA, ATC.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14L/14R: Climb via NUQ R-141 to cross HOOKS/NUQ 20 DME at 6000, thence

. . . . via (transition).

VALLEY TRANSITION (HOOKS1.SNS): From over HOOKS DME via SNS R-316 to SNS VORTAC.

ILS OR LOC/DME RWY 32R
MOUNTAIN VIEW/MOFFETT FEDERAL AFLD (NUQ)

ALSF-1

MISSED APPROACH: Climb to 3200 via NUQ TACAN and NUQ R-321 to PEYIC/NUQ 16 DME and hold.

3200 ↑	NUQ R-321 Chan 123	PEYIC NUQ [16]				
VGS and ILS glidepath not coincident.		EBIM NUQ [8] 2100	JULUD NUQ [10.8] 3000	RIROC NUQ [14.3] 4100	AGAPE NUQ [16.5] 4800	HOOKS NUQ [20] 5500
TACAN		CIKGA NUQ [2.2] 2100	GS 3.00° TCH 57°			
0.4		5.8 NM	2.8 NM	3.5 NM	2.2 NM	3.5 NM
CATEGORY	A		B	C	D	E
S-ILS 32R	227/40 200 (200-¾)					
S-LOC 32R	580/40 553 (600-¾)		580/50 553 (600-1)	580/60 553 (600-1¼)	580-1½ 553 (600-1½)	
CIRCLING	580-1 548 (600-1)		580-1½ 548 (600-1½)	600-2 568 (600-2)	840-2¾ 808 (900-2¾)	

LOC I-MNQ	APP CRS	Rwy Idg	9202
110.35	142°	TDZE	2
		Apt Elev	32

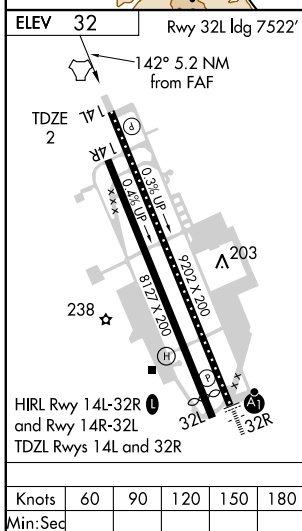
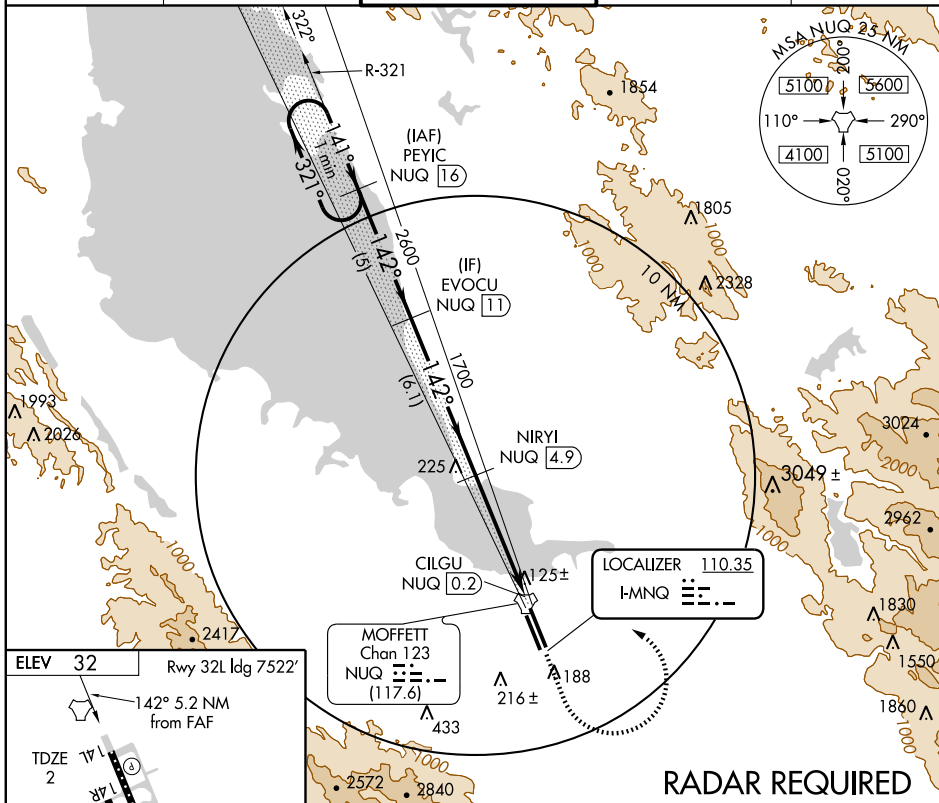
LOC/DME RWY 14L

MOUNTAIN VIEW/MOFFETT FEDERAL AFLD (NUQ)

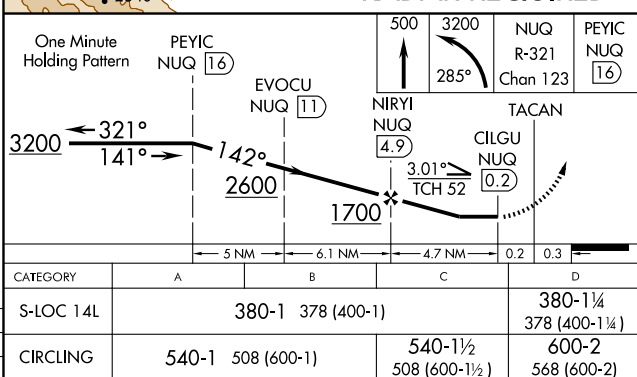
▼ DME from NUQ TACAN. Simultaneous reception of I-MNQ and NUQ DME required.
▲ NA TACAN required.

MISSED APPROACH: Climb to 500 then climbing left turn to 3200 via heading 285° and NUQ R-321 to PEYIC NUQ 16 DME and hold.

ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON	CLNC DEL
124.175 283.0	120.1 290.25	119.55 (CTAF) 346.25	121.85 336.4	380.8



RADAR REQUIRED



ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.



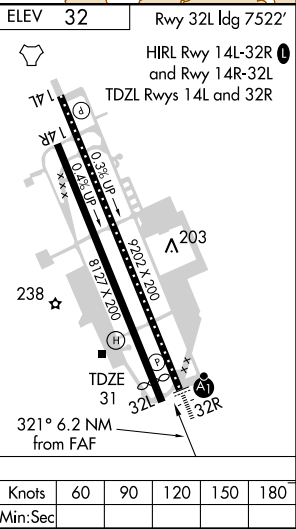
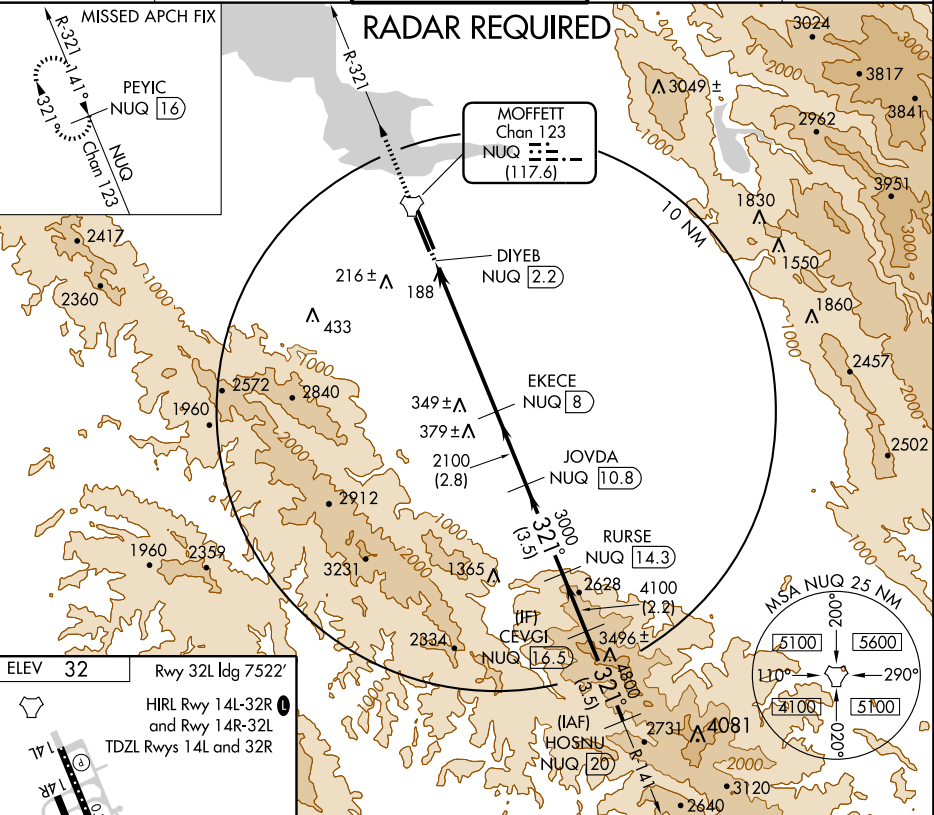
PANOCHÉ TRANSITION (SOLN1.PXN): From over MOONY INT via PXN R-288 to PXN VORTAC.

TACAN NUG	APP CRS	Rwy Idg	7522
Chan 123	321°	TDZE	31
		Apt Elev	32

MOUNTAIN VIEW/ MOFFETT FEDERAL AFLD (NUQ)

▼ NA	MISSED APPROACH: Climb to 3200 via NUG TACAN and NUG R-321 to PEYIC/16 DME and hold.
--------------------------------------	--

ATIS	NORCAL APP CON	MOFFETT TOWER ★	GND CON	CLNC DEL
124.175 283.0	120.1 290.25	119.55 (CTAF) 346.25	121.85 336.4	380.8



3200	NUQ R-321 Chan 123	PEYIC NUG 16	JOYDA NUG 10.8	RURSE NUG 14.3	CEVGI NUG 16.5	HOSNU NUG 20
TACAN	DIYEB NUG 2.2	NUQ 3.4	EKECE NUG 8	3000	4100	5500
0.4	1.3 NM	4.5 NM	2.8 NM	3.5 NM	2.2 NM	3.5 NM
CATEGORY	A	B	C	D	E	
S-32L	620-1 589 (600-1)	620-1½ 589 (600-1½)	620-1¾ 589 (600-1¾)	620-2 589 (600-2)	620-2 840 (600-2)	620-2 808 (900-2¾)
CIRCLING	620-1 588 (600-1)	620-1½ 588 (600-1½)	620-1¾ 588 (600-1¾)	620-2 588 (600-2)	620-2 840 (600-2)	620-2 808 (900-2¾)
Knots	60	90	120	150	180	
Min:Sec						

TACAN NUQ Chan 123	APP CRS 321°	Rwy Idg TDZE Apt Elev	9202 27 32
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TACAN RWY 32R

MOUNTAIN VIEW/MOFFETT FEDERAL AFLD (NUQ)

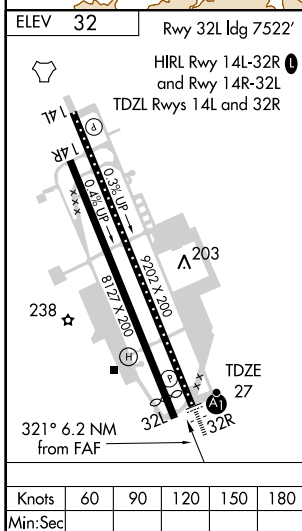
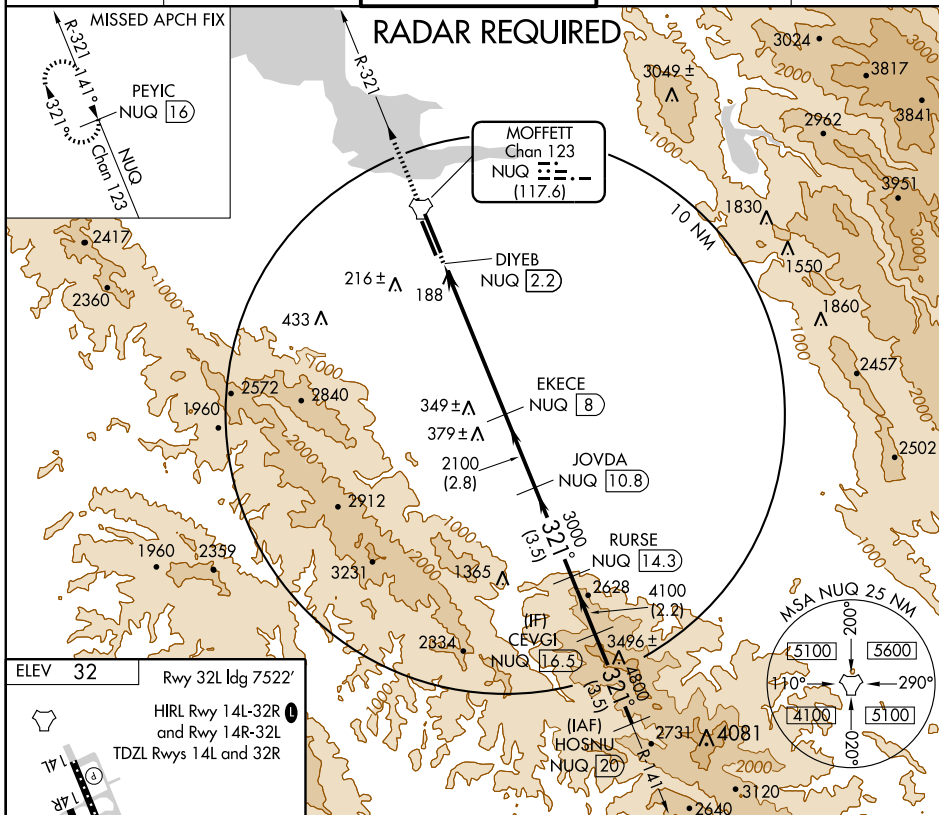
T For inoperative ALSF, increase S-32R Cats A/B
ANA visibility to RVR 5000 and Cat E to 2.

ALSF-1



MISSED APPROACH: Climb to 3200 via NUQ TACAN and NUQ R-321 to PEYIC/16 DME and hold.

ATIS 124.175 283.0	NORCAL APP CON 120.1 290.25	MOFFETT TOWER ★ 119.55 0 (CTAF) 346.25	GND CON 121.85 336.4	CLNC DEL 380.8
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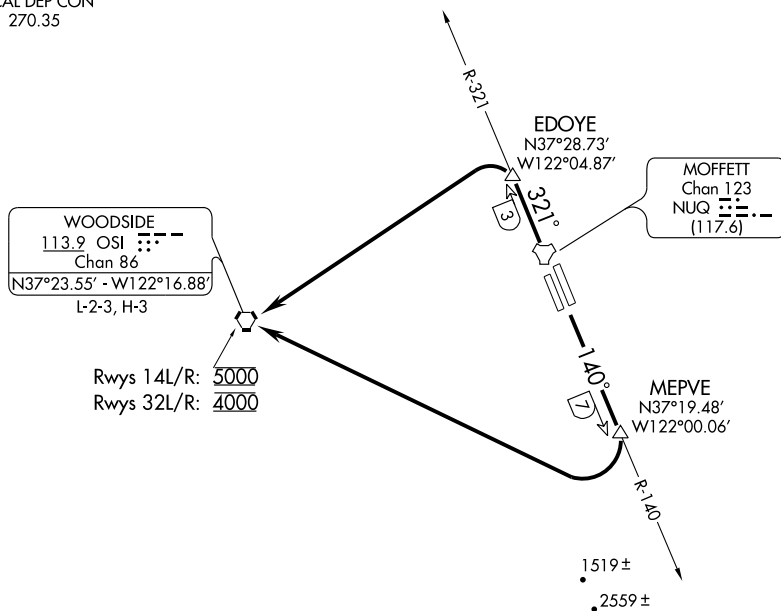


3200 ↑	NUQ R-321 Chan 123	PEYIC NUQ 16					
TACAN	DIYEB NUQ 2.2	NUQ 3.5	EKECE NUQ 8	JOVDA NUQ 10.8	RURSE NUQ 14.3	CEVGİ NUQ 16.5	HOSNU NUQ 20
		≤ 3.05° TCH 52				321°	5500
			2100	3000	4100	4800	
0.4	1.3 NM	4.5 NM	2.8 NM	3.5 NM	2.2 NM	3.5 NM	
CATEGORY	A	B	C	D	E		
S-32R	620/40 593 (600-¾)		620/50 593 (600-1)	620/60 593 (600-1¼)	620-1½ 593 (600-1½)		
CIRCLING	620-1 588 (600-1)		620-1½ 588 (600-1½)	620-2 588 (600-2)	840-2¾ 808 (900-2¾)		

WOODSIDE ONE DEPARTURE

MOUNTAIN VIEW / MOFFETT FEDERAL AFLD (NUQ)
SL-410 (FAA) MOUNTAIN VIEW, CALIFORNIA

ATIS
124.175 283.0
CLNC DEL
380.8
GND CON
121.85 336.4
MOFFETT TOWER ★
119.55 (CTAF) 346.25
NORCAL DEP CON
121.3 270.35

TAKE-OFF MINIMUMS

Rwy 14L/14R: Standard with minimum climb of 402' per NM to 5000.

Rwy 32R: Standard with minimum climb of 250' per NM to 4000.

Rwy 32L: Standard with minimum climb of 246' per NM to 4000.

NOTE: TACAN required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14L/14R: Climb via NUQ R-140 to MEPVE/NUQ 7 DME, then right turn direct to cross OSI VORTAC at 5000, thence . . .

TAKE-OFF RUNWAYS 32L/32R: Climb via NUQ R-321 to EDOYE/NUQ 3 DME, then turn left direct to cross OSI VORTAC at 4000, thence . . .

. . . via RADAR vectors or assigned route.

APP CRS	Rwy Idg	6000
179°	TDZE	1350
	Apt Elev	1350

RNAV (GPS) RWY 18

MURRIETA/TEMECULA/FRENCH VALLEY (F70)

NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Circling not authorized west of Rwy 18-36.

NA When local altimeter setting not received, use Ramona altimeter setting and increase all MDAs 100 feet and all visibilities $\frac{1}{4}$ mile.

MISSED APPROACH: Climb to 7000 direct FARGA and left turn via 077° track to HANLI and left turn via 321° track to SETER and hold.

AWOS-3

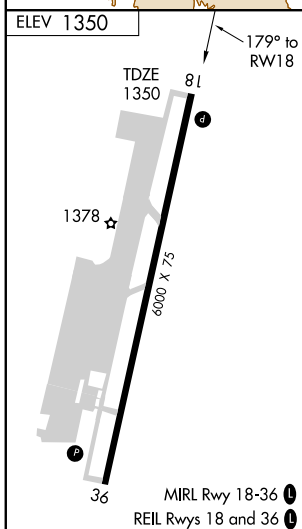
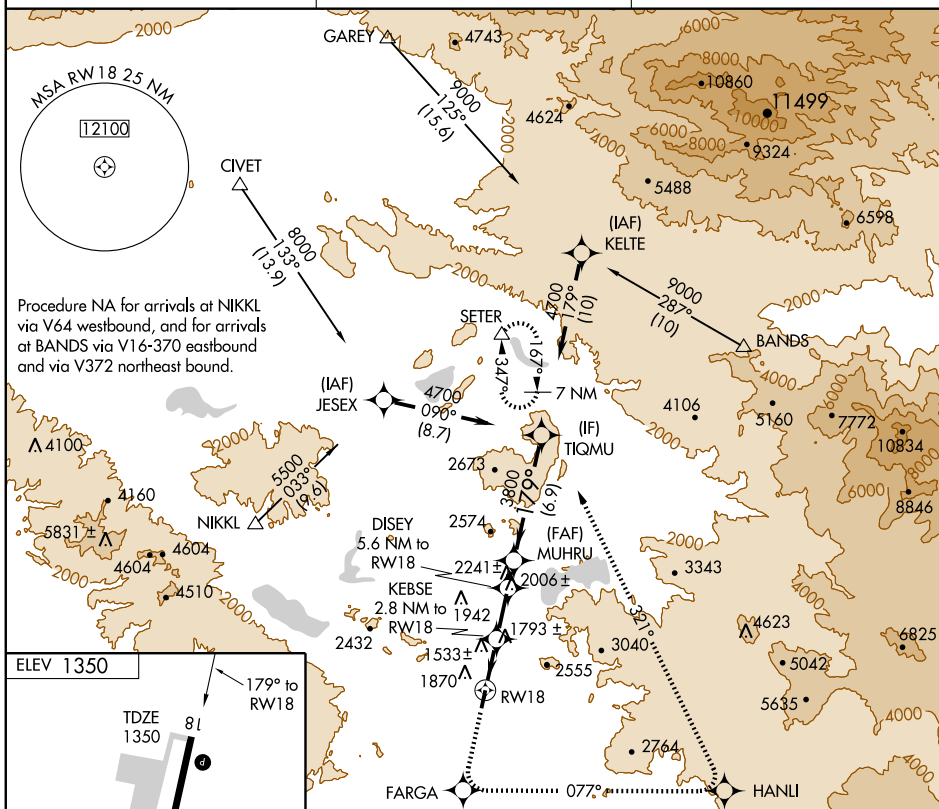
119.025

MARCH APP CON ★

133.5 324.1

UN|COM

122.8 (CTAF) L



7000 ↑	FARGA ✦	077° track	HANLI ✦	321° track	SETER △	TIQMU Procedure Turn NA	
KEBSE 2.8 NM to RW18 DISEY 5.6 NM to RW18 MUHRU RW18 3.21° TCH 40 2340 3300 3800 4700 179° VGSi and descent angles not coincident.							
CATEGORY		A		B		C	
LNAV MDA		1880-1 530 (600-1)		1880-1½ 530 (600-1½)		NA	
CIRCLING		2040-1 690 (700-1)		2040-2 690 (700-2)		NA	

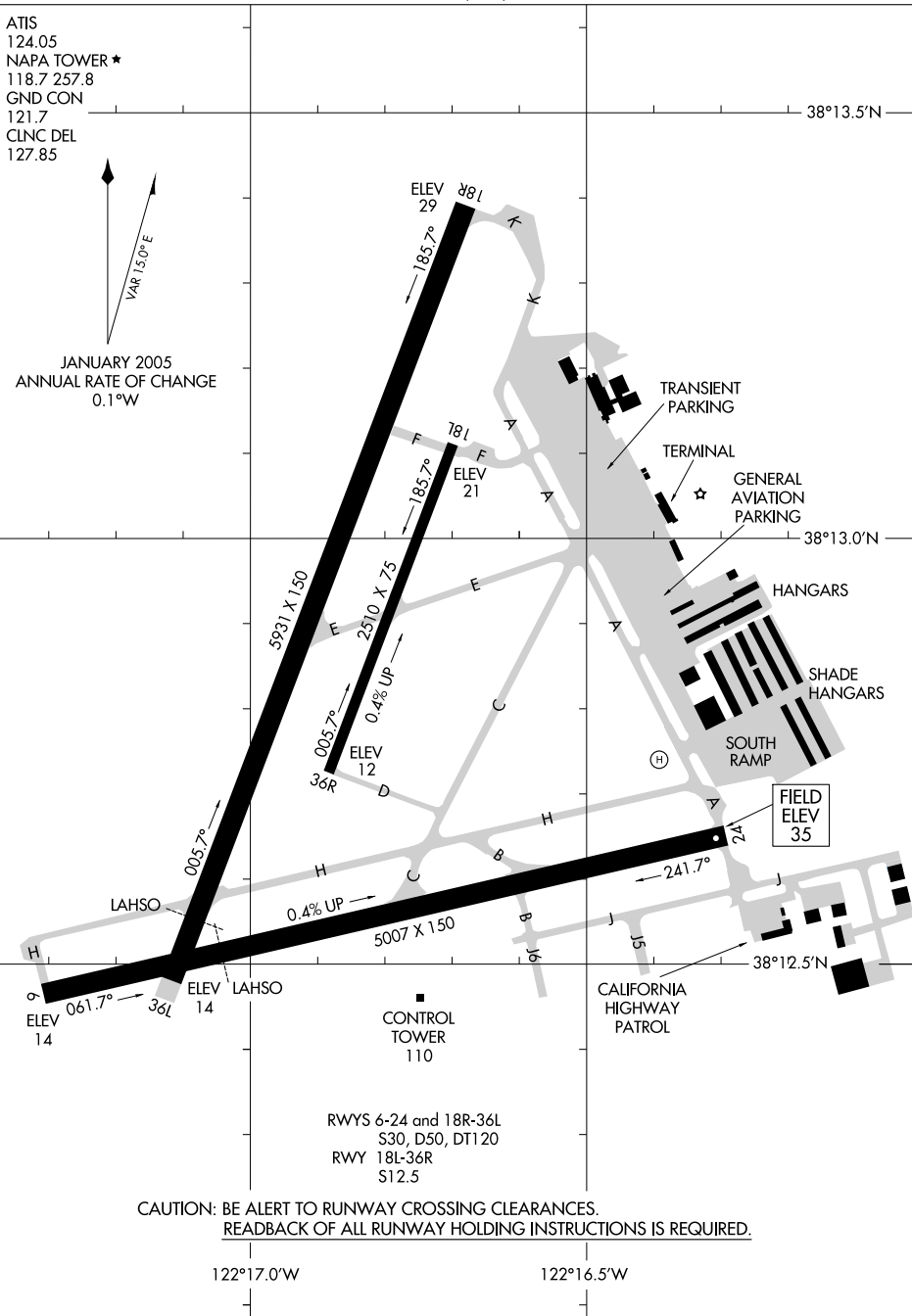
AIRPORT DIAGRAM

AL-281 (FAA)

NAPA COUNTY (APC)
NAPA, CALIFORNIA

ATIS
124.05
NAPA TOWER ★
118.7 257.8
GND CON
121.7
CLNC DEL
127.85

VAR 15.0° E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REDBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

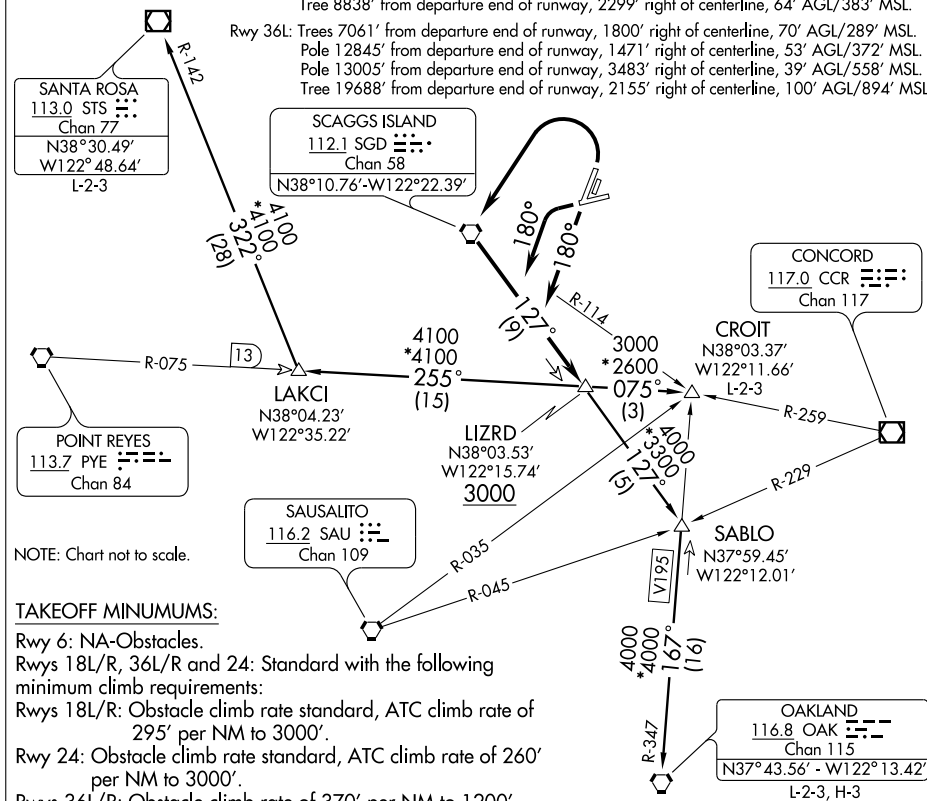
LIZRD THREE DEPARTURE

SL-281 (FAA)

NAPA COUNTY (APC)
NAPA, CALIFORNIAATIS 124.05
GND CON
121.7
OAKLAND CENTER
127.8 353.5

TAKEOFF OBSTACLES:

Rwy 18L: Tree 4982' from departure end of runway, 237' left of centerline, 58' AGL/92' MSL.
 Rwy 24: Bridge 4964' from departure end of runway, 1716' right of centerline, 167' AGL/167' MSL.
 Rwy 36R: Floodlight 462' from departure end of runway, 339' right of centerline, 29' AGL/53' MSL.
 Tree 8701' from departure end of runway, 1286' right of centerline, 70' AGL/289' MSL.
 Tree 8838' from departure end of runway, 2299' right of centerline, 64' AGL/383' MSL.
 Rwy 36L: Trees 7061' from departure end of runway, 1800' right of centerline, 70' AGL/289' MSL.
 Pole 12845' from departure end of runway, 1471' right of centerline, 53' AGL/372' MSL.
 Pole 13005' from departure end of runway, 3483' right of centerline, 39' AGL/558' MSL.
 Tree 19688' from departure end of runway, 2155' right of centerline, 100' AGL/894' MSL.



TAKEOFF MINIMUMS:

Rwy 6: NA-Obstacles.
 Rwys 18L/R, 36L/R and 24: Standard with the following minimum climb requirements:
 Rwys 18L/R: Obstacle climb rate standard, ATC climb rate of 295' per NM to 3000'.
 Rwy 24: Obstacle climb rate standard, ATC climb rate of 260' per NM to 3000'.
 Rwys 36L/R: Obstacle climb rate of 370' per NM to 1200'.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 18L/R: Climb via 180° heading to intercept and proceed outbound via the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3000'. Thence. . .

TAKE-OFF RUNWAY 24: Turn left, climb via 180° heading to intercept and proceed outbound via the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3000'. Thence. . .

TAKE-OFF RUNWAYS 36L/R: Turn left direct SGD VORTAC, proceed outbound via the SGD R-127 to LIZRD INT. Cross LIZRD INT at or above 3000'. Thence. . .

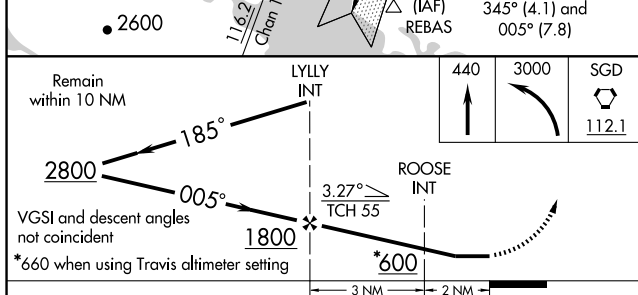
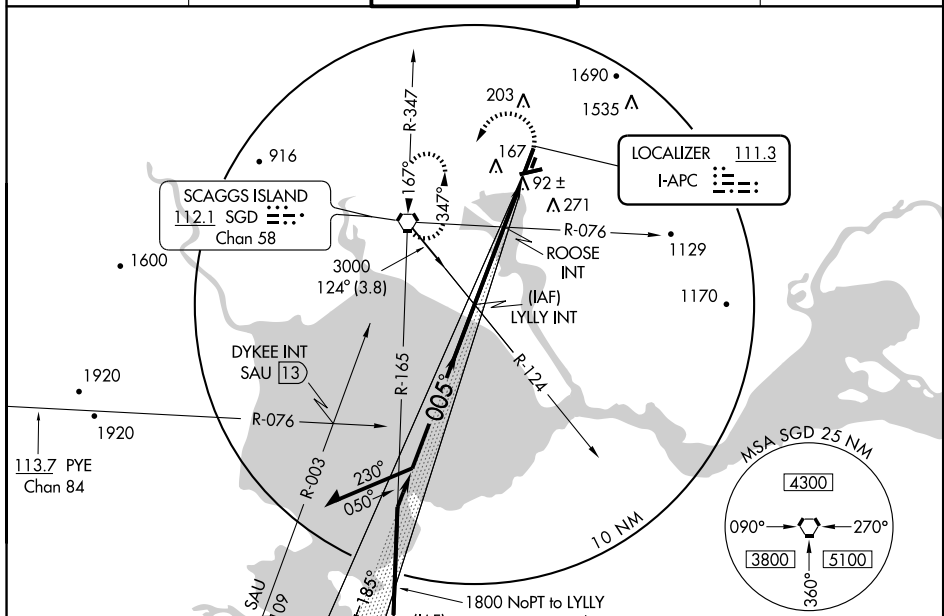
. . . via (transition) or (assigned route).

CROIT TRANSITION (LIZRD3.CROIT): From over LIZRD INT via PYE R-075 to CROIT INT.

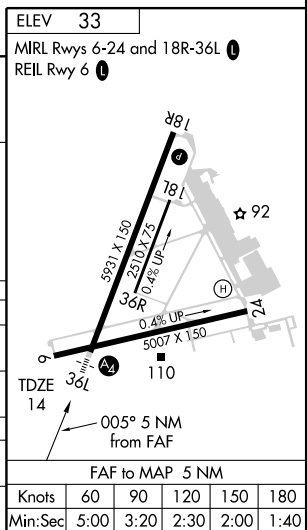
OAKLAND TRANSITION (LIZRD3.OAK): From over LIZRD INT via SGD R-127 and OAK R-347 to OAK VORTAC.

SANTA ROSA TRANSITION (LIZRD3.STS): From over LIZRD INT via PYE R-075 and STS R-142 to STS VOR/DME.

ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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CATEGORY	A	B	C	D
S-LOC 36L†	600- $\frac{3}{4}$	586 (600- $\frac{3}{4}$)	600-1 $\frac{1}{2}$ 586 (600-1 $\frac{1}{2}$)	600-1 $\frac{3}{4}$ 586 (600-1 $\frac{3}{4}$)
CIRCLING	600-1 567 (600-1)	620-1 587 (600-1)	620-1 $\frac{1}{2}$ 587 (600-1 $\frac{1}{2}$)	1140-3 1107 (1200-3)
ROOSE MINIMUMS				
S-LOC 36L††	360- $\frac{3}{4}$ 346 (400- $\frac{3}{4}$)			360-1 $\frac{1}{4}$ 346 (400-1 $\frac{1}{4}$)
CIRCLING	600-1 567 (600-1)	620-1 587 (600-1)	620-1 $\frac{1}{2}$ 587 (600-1 $\frac{1}{2}$)	1140-3 1107 (1200-3)



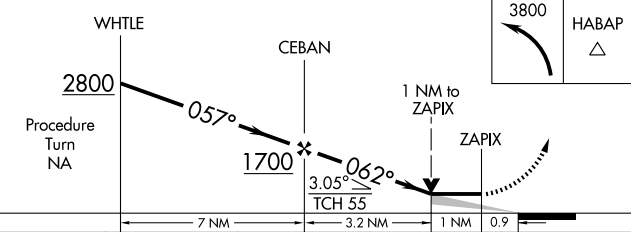
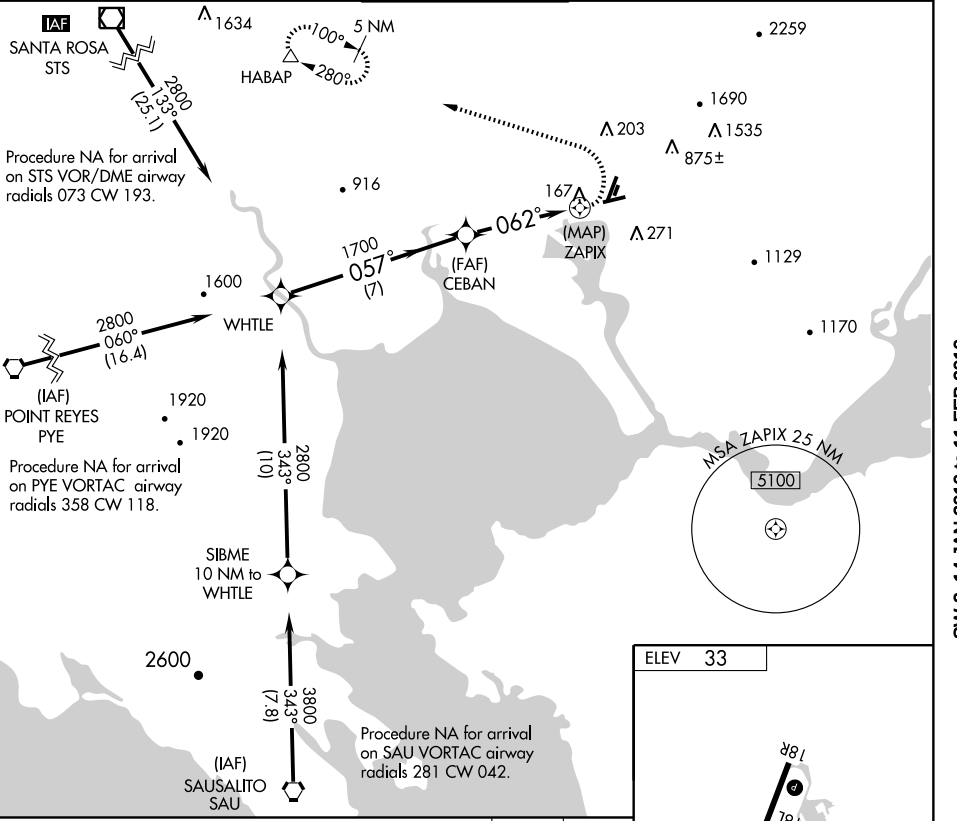
APP CRS	Rwy Idg	5007
062°	TDZE	19
	Apt Elev	33

Circling NA northeast of Rwys 18R and 24.

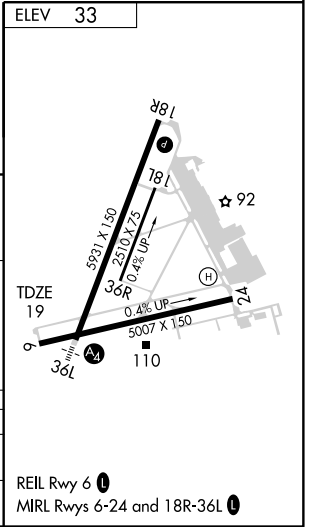
IAF ARM APPROACH MODE PRIOR TO IAF.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 3800 direct HABAP and hold.

ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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CATEGORY	A	B	C	D
LNAV MDA	660-1 641 (700-1)	660-1½ 641 (700-1½)	660-2 641 (700-2)	660-2 641 (700-2)
CIRCLING	660-1 627 (700-1)	720-2 687 (700-2)	1240-3 1207 (1300-3)	



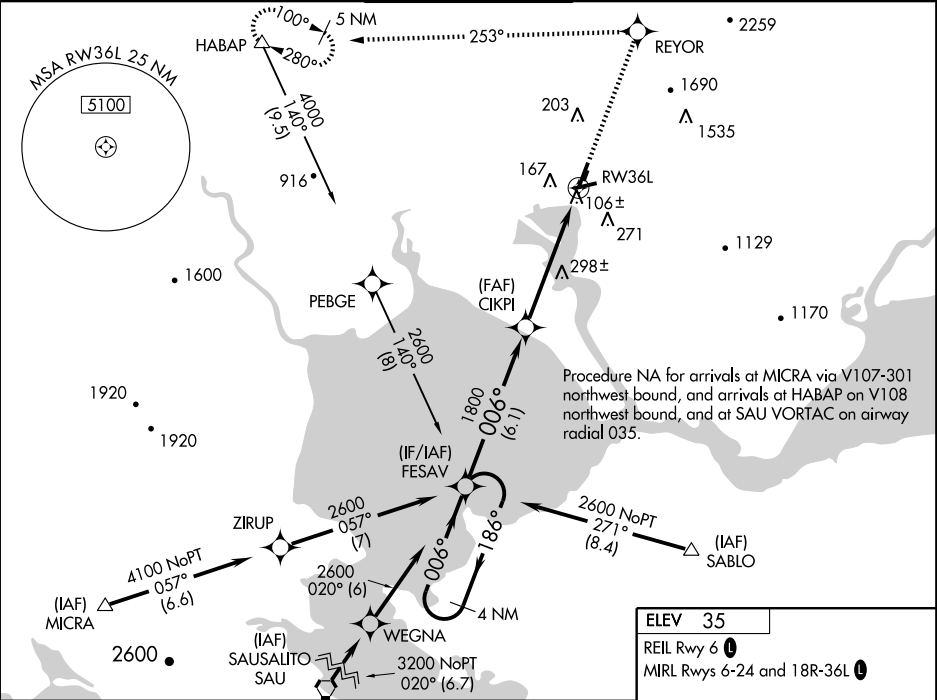
WAAS CH 56613 W36A	APP CRS 006°	Rwy Idg TDZE Apt Elev	5931 17 35
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RNAV (GPS) Y RWY 36L

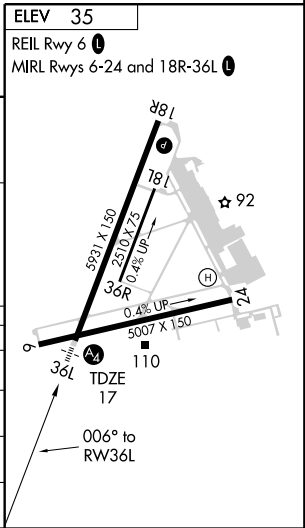
NAPA COUNTY (APC)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Buchanan Field altimeter setting and increase all DA 41 feet, all MDA 60 feet. Baro-VNAV NA when using Buchanan Field altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -30°C (-22°F) or above 49°C (120°F).	MALS — ⚠	MISSED APPROACH: Climb to 4000 direct REYOR and via track 253° to HABAP and hold.
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ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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4 NM Holding Pattern		FESAV	4000	REYOR	TRK 253°	HABAP
2600		186°	006°	006°	1800	RW36L
GS 3.00° TCH 50		6.1 NM	5.4 NM			
CATEGORY	A	B	C	D		
LPV DA		1202-5	1185 (1200-5)			
LNAV/VNAV DA		1419-5	1402 (1400-5)			
LNAV MDA	1620-1¼ 1603 (1600-1¼)	1620-1½ 1603 (1600-1½)	1620-3 1603 (1600-3)			
CIRCLING	1620-1¼ 1585 (1600-1¼)	1620-1½ 1585 (1600-1½)	1620-3 1585 (1600-3)			



WAAS
CH **40313**
W36B

APP CRS
006°

Rwy Idg
TDZE
Apt Elev
5931
17
35

RNAV (GPS) Z RWY 36L
NAPA COUNTY (APC)

▽

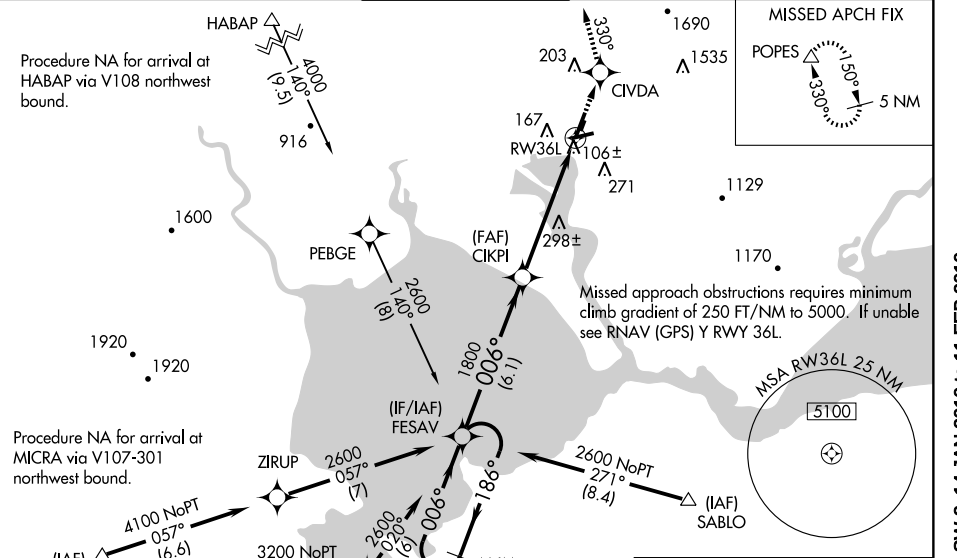
▲

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Buchanan Field altimeter setting and increase all DA 41 feet, all MDA 60 feet, and increase visibility LPV all Cats. ¼ mile, LNAV/VNAV all Cats. 1 mile, and LNAV Cats. C/D ¼ mile. VDP NA when using Buchanan Field altimeter setting. Baro-VNAV NA when using Buchanan Field altimeter setting.

MALS

MISSED APPROACH:
Climb to 5000 direct CIVDA and via track 330° to POPES and hold.

ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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ELEV 35

REIL Rwy 6

MIRL Rwy 6-24 and 18R-36L

4 NM Holding Pattern

FESAV

CIVDA

TRK 330°

POPES

2600 ← 186°

006° →

006°

1800

6.1 NM

3.4 NM

1.9 NM

*LNAV only

CATEGORY	A	B	C	D
LPV DA		300-1	283 (300-1)	
LNAV/VNAV DA		856-3	839 (900-3)	
LNAV MDA	680-1	663 (700-1)	680-1¾ 663 (700-1¾)	680-2 663 (700-2)
CIRCLING	700-1	665 (700-1)	920-2¾ 885 (900-2¾)	1180-3 1145 (1200-3)

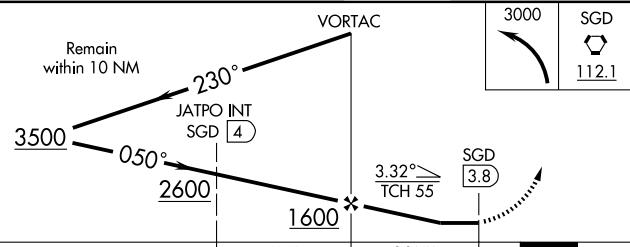
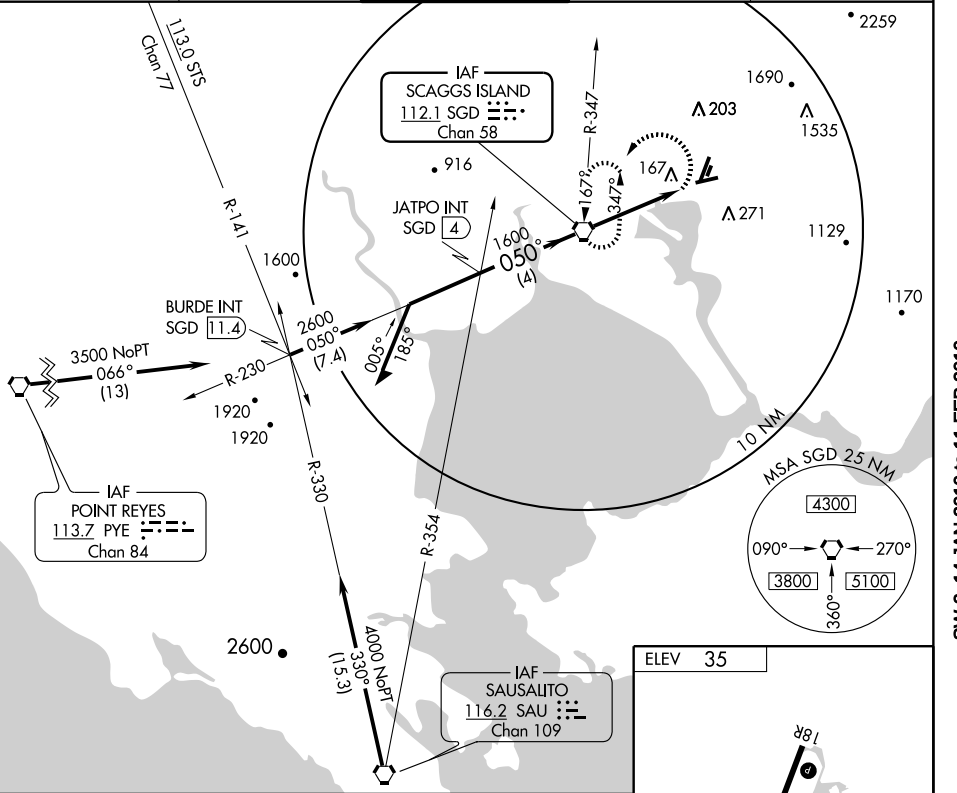
006° to RWY 36L

SW-2, 14 JAN 2010 to 11 FEB 2010

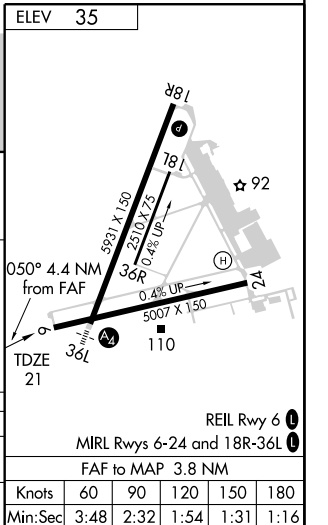
Circling NA northeast of Rwy 18R and 24.

MISSED APPROACH: Climbing left turn to 3000 direct SGD VORTAC and hold.

ATIS 124.05	OAKLAND CENTER 127.8 353.5	NAPA TOWER★ 118.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 127.85
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CATEGORY	A	B	C	D
S-6	440-1 419 (500-1)	440-1 419 (500-1)	440-1 419 (500-1)	440-1 419 (500-1)
CIRCLING	600-1 565 (600-1)	620-1 585 (600-1)	720-2 685 (700-2)	1240-3 1205 (1300-3)



SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	5005
270°	TDZE	956
	Apt Elev	983

RNAV (GPS) RWY 29

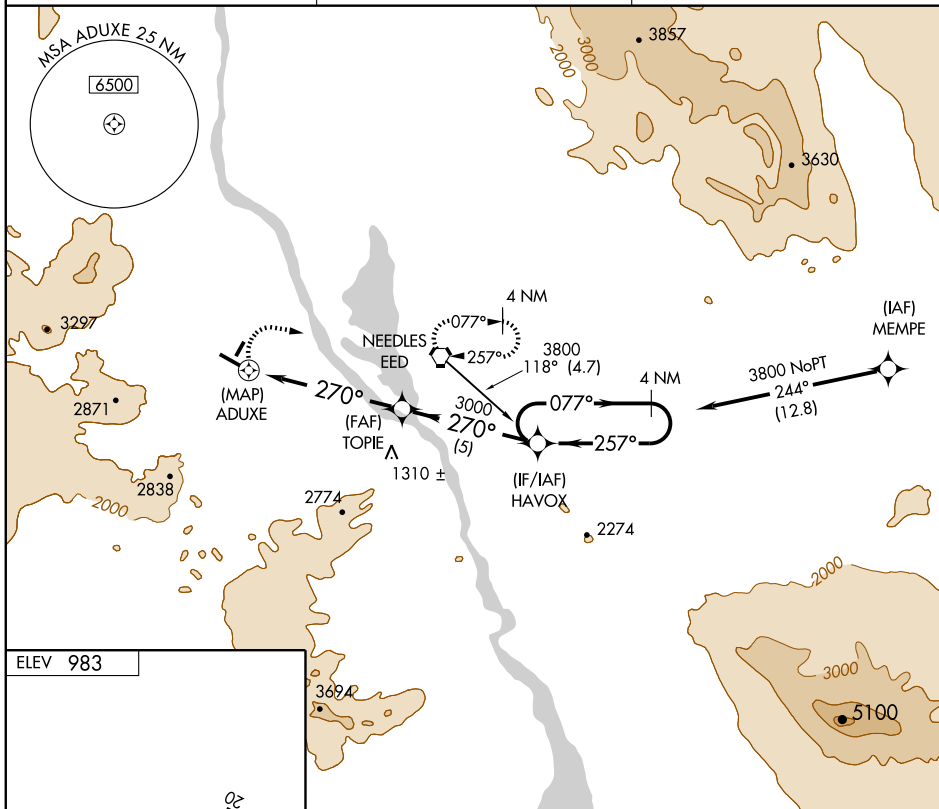
T Straight-in minimums not authorized at night.
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 6000 direct to EED VORTAC and hold.

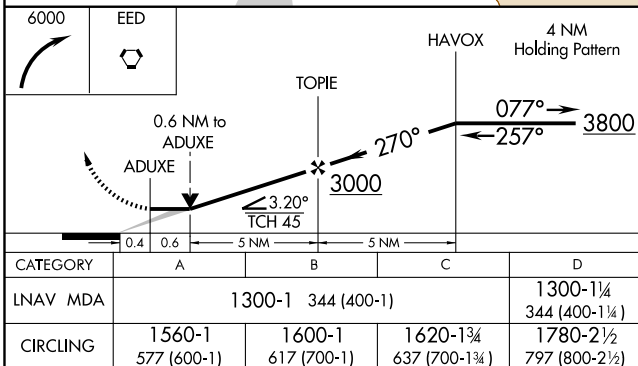
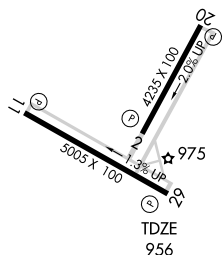
ASOS
128.325

LOS ANGELES CENTER
134.65 360.65

UNICOM
123.0 (CTAF) **L**

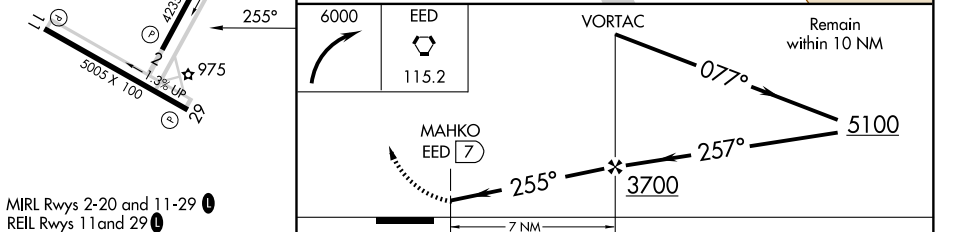
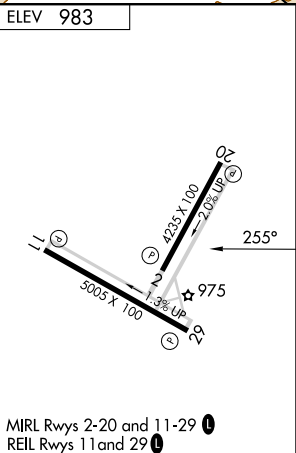
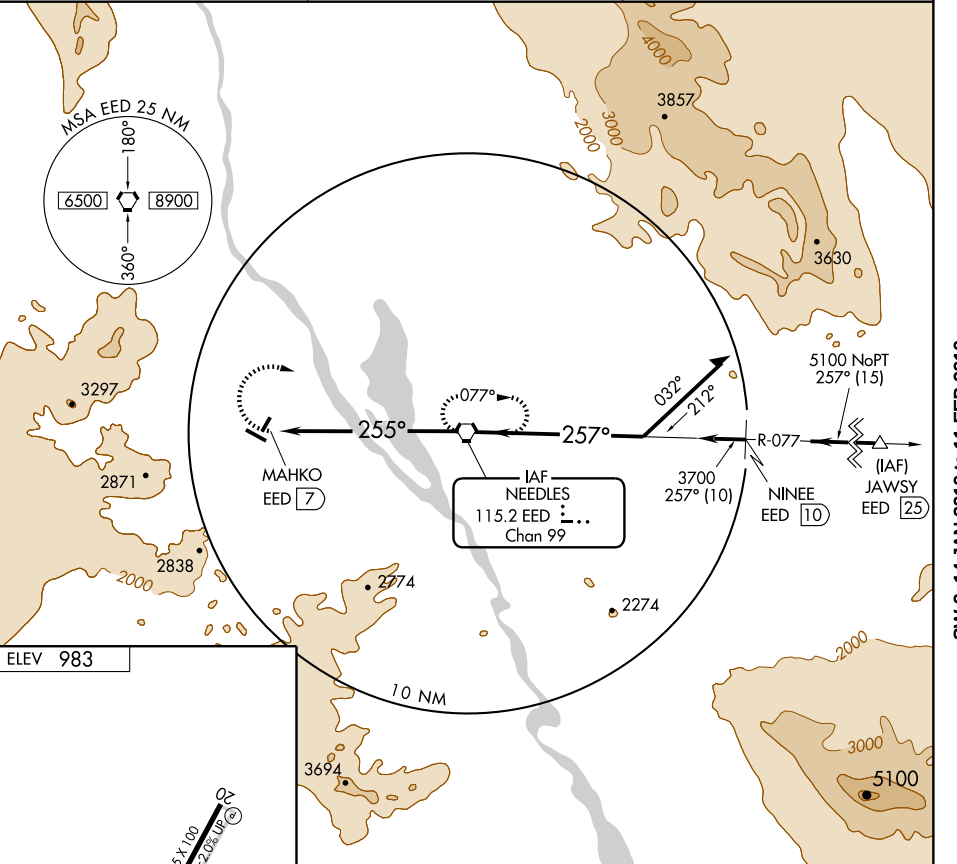


ELEV	983
------	-----

MIRL Rwy's 2-20 and 11-29 **L**REIL Rwys 11 and 29 **L**

MISSED APPROACH: Climbing right turn to 6000 direct EED VORTAC and hold.

ASOS 128.325	LOS ANGELES CENTER 134.65 360.65	UNICOM 123.0 (CTAF)
------------------------	--	-------------------------------



FAF to MAP 7 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1560-1 577 (600-1)	1600-1 617 (700-1)	1620-1¾ 637 (700-1¾)	1780-2½ 797 (800-2½)
Min:Sec	7:00	4:40	3:30	2:48	2:20					

SW-3. 14 JAN 2010 to 11 FEB 2010

▼

NA

DME/DME RNP-0.3 NA.

Use Stockton altimeter setting, when not received, procedure NA.

Circling to Rwy 28 NA at night.

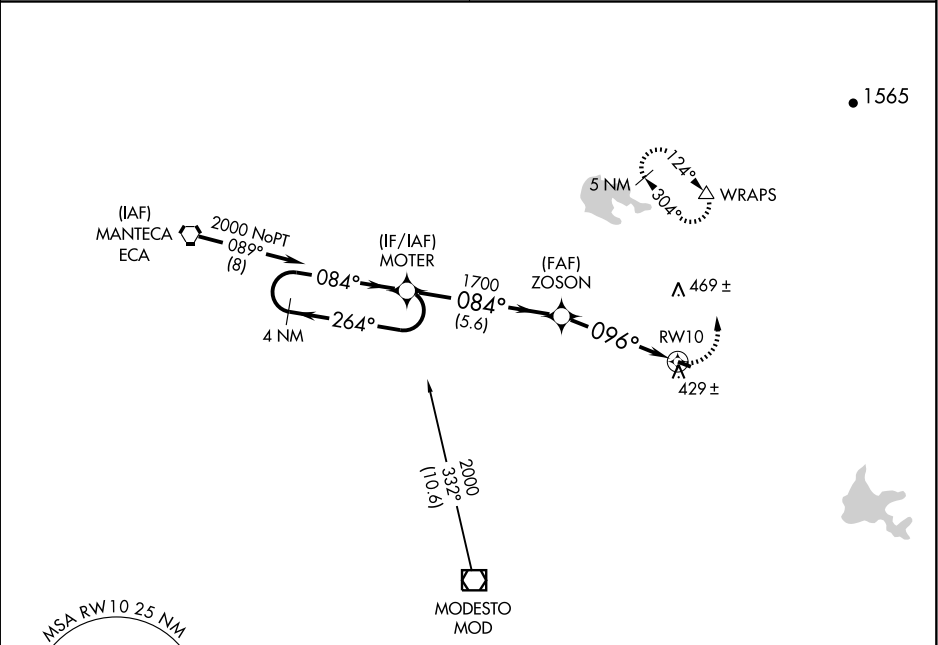
MISSED APPROACH: Climbing left turn to 3000 direct WRAPS and hold.

NORCAL APP CON

125.1 363.2

UNICOM

122.8 (CTAF) 0



ELEV 237

096° to RW10

TDZE 237

0.4% UP 3013 X 75

28

4 NM Holding Pattern

MOTER

ZOSON

RW10

2000

264°

084°

084°

1700

096°

3.04° TCH 40

5.6 NM

4.5 NM

3000

WRAPS

△

VGSI and descent angles not coincident

CATEGORY	A	B	C	D
LNAV MDA	760-1	523 (600-1)	NA	
CIRCLING	860-1	623 (700-1)	NA	

MIRL Rwy 10-28 0

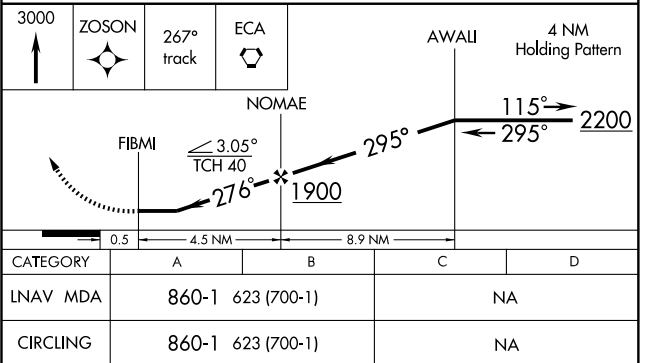
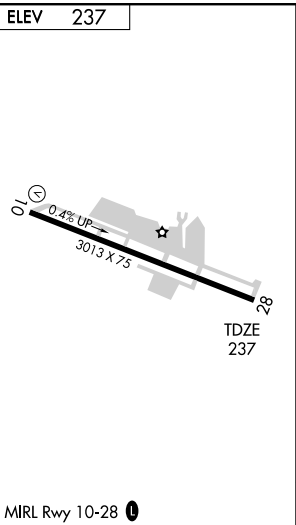
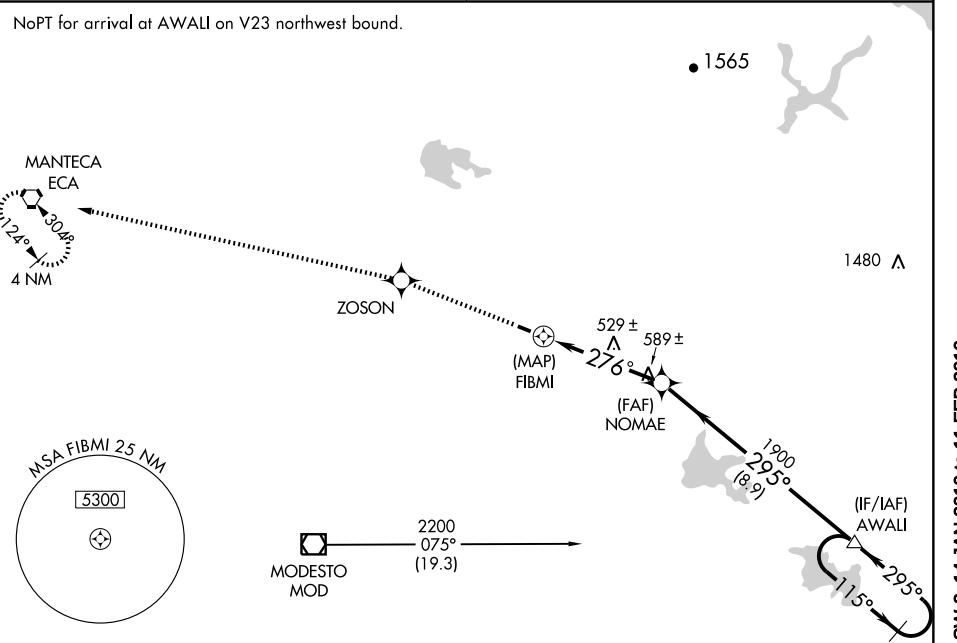
NA

DME/DME RNP-0.3 NA.
Use Stockton altimeter setting, when not received, procedure NA.
Straight-In/Circling to Rwy 28 NA at night.

MISSED APPROACH: Climb to 3000 direct ZOSON and via 267° track to ECA VORTAC and hold.

NORCAL APP CON
125.1 363.2

UNICOM
122.8 (CTAF)



▼

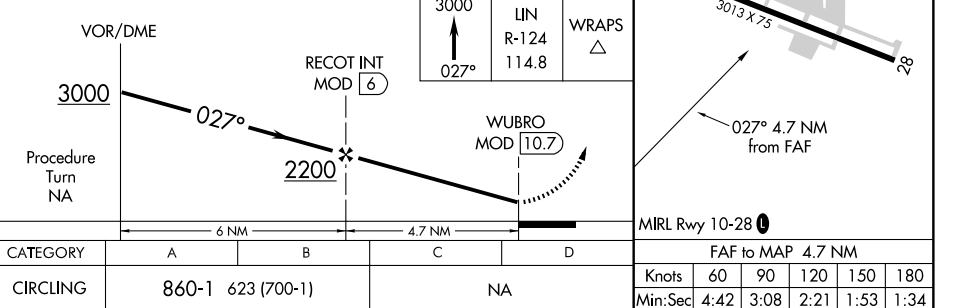
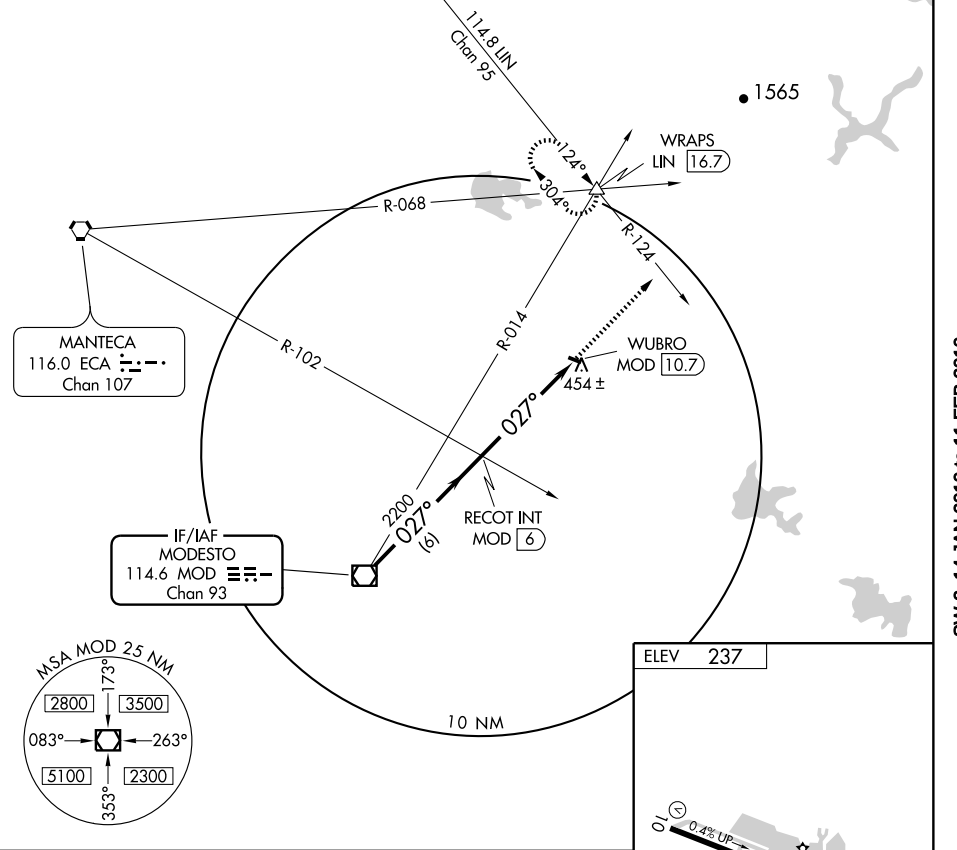
NA

Use Stockton altimeter setting, when not received, procedure NA. Circling to Rwy 28 NA at night.

MISSED APPROACH: Climb to 3000 via heading 027° and LIN R-124 to WRAPS Int/LIN 16.7 DME and hold, continue climb-in-hold to 3000.

NORCAL APP CON
125.1 363.2

UNICOM
122.8 (CTAF)

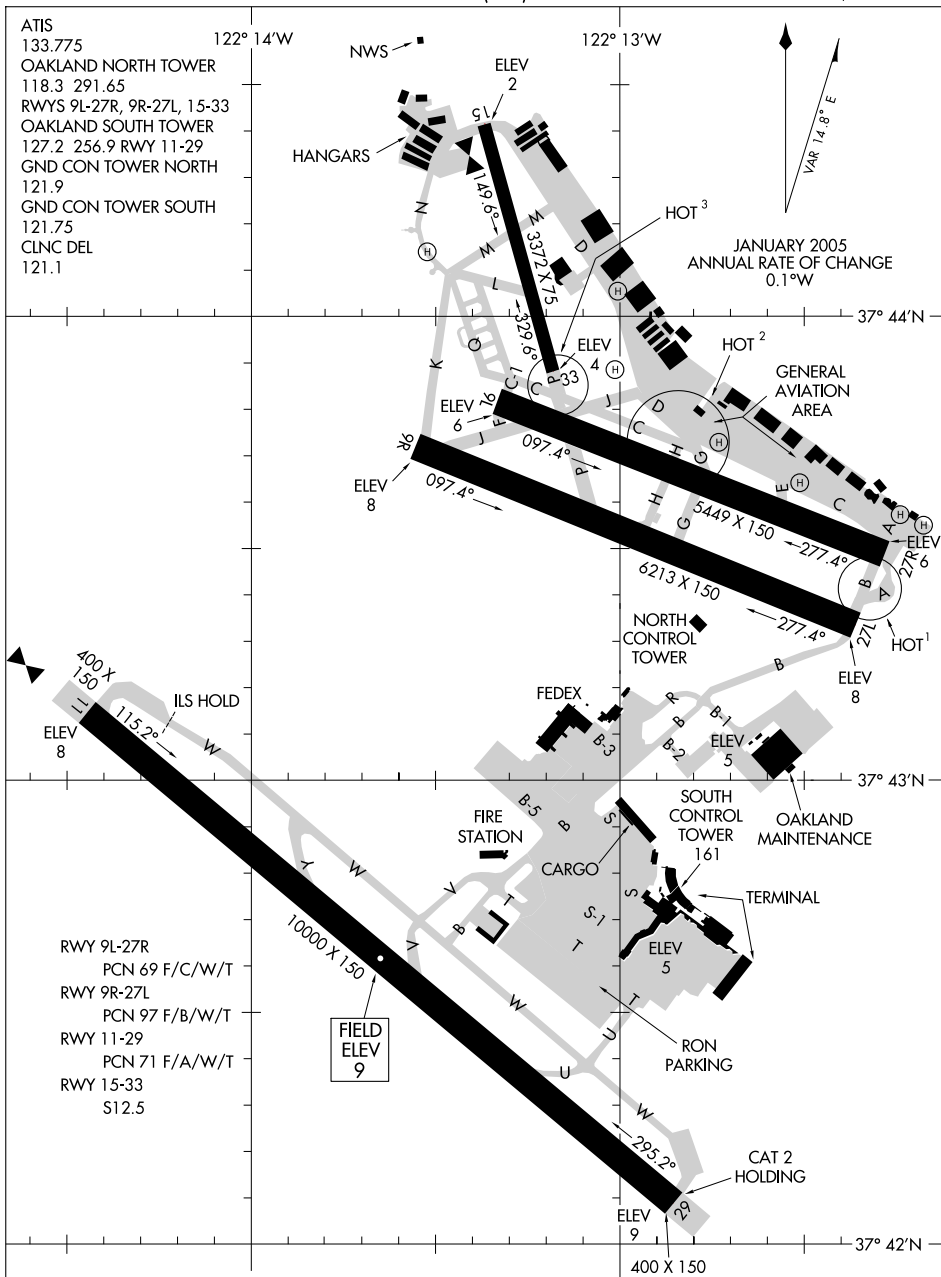


SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-294 (FAA) OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
OAKLAND, CALIFORNIA

ATIS
133.775
OAKLAND NORTH TOWER
118.3 291.65
RWYS 9L-27R, 9R-27L, 15-33
OAKLAND SOUTH TOWER
127.2 256.9 RWY 11-29
GND CON TOWER NORTH
121.9
GND CON TOWER SOUTH
121.75
CLNC DEL
121.1



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-2 14 JAN 2010 to 11 FEB 2010

OAK
SL-294 (FAA)

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
(FAA) OAKLAND, CALIFORNIA

CLNC DEL

121.1

GND CON

NORTH 121.9

SOUTH 121.75

OAKLAND TOWER

118.3 291.65 (R_{wys} 27L/R)

127.2 256.9 (R_{wv} 29)

NORCAL DEP CON

135.1 307.2



NOTE: RADAR required.

NOTE: DME required.

NOTE: For obstacle clearance the following minimum climb rates apply:

Rwys 27L/R: 375' per NM to 2000'.
Rwy 29: 230' per NM to 2000'.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 27L/R and 29: Maintain runway heading for vectors to PYE R-151. Cross 4 miles northwest of OAK VORTAC at or below 2000'. Intercept and proceed via the PYE R-151 to SEGUL INT. Cross SEGUL INT at or above 16000'. Proceed via the PYE R-151 to CYPRS INT; cross CYPRS INT at or above FL 220. Then via the MQO R-295 to MCKEY INT, then via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: TAKE-OFF RUNWAYS 27L/R AND 29: After reaching 3000', turn left heading 200°, intercept and proceed via PYE R-151, then resume own navigation.

FELLOWS TRANSITION (COAST5.FLW): From over MCKEY INT via MQO R-295 to MQO VORTAC; then via MQO R-086 and FLW R-266 to FLW VORTAC.

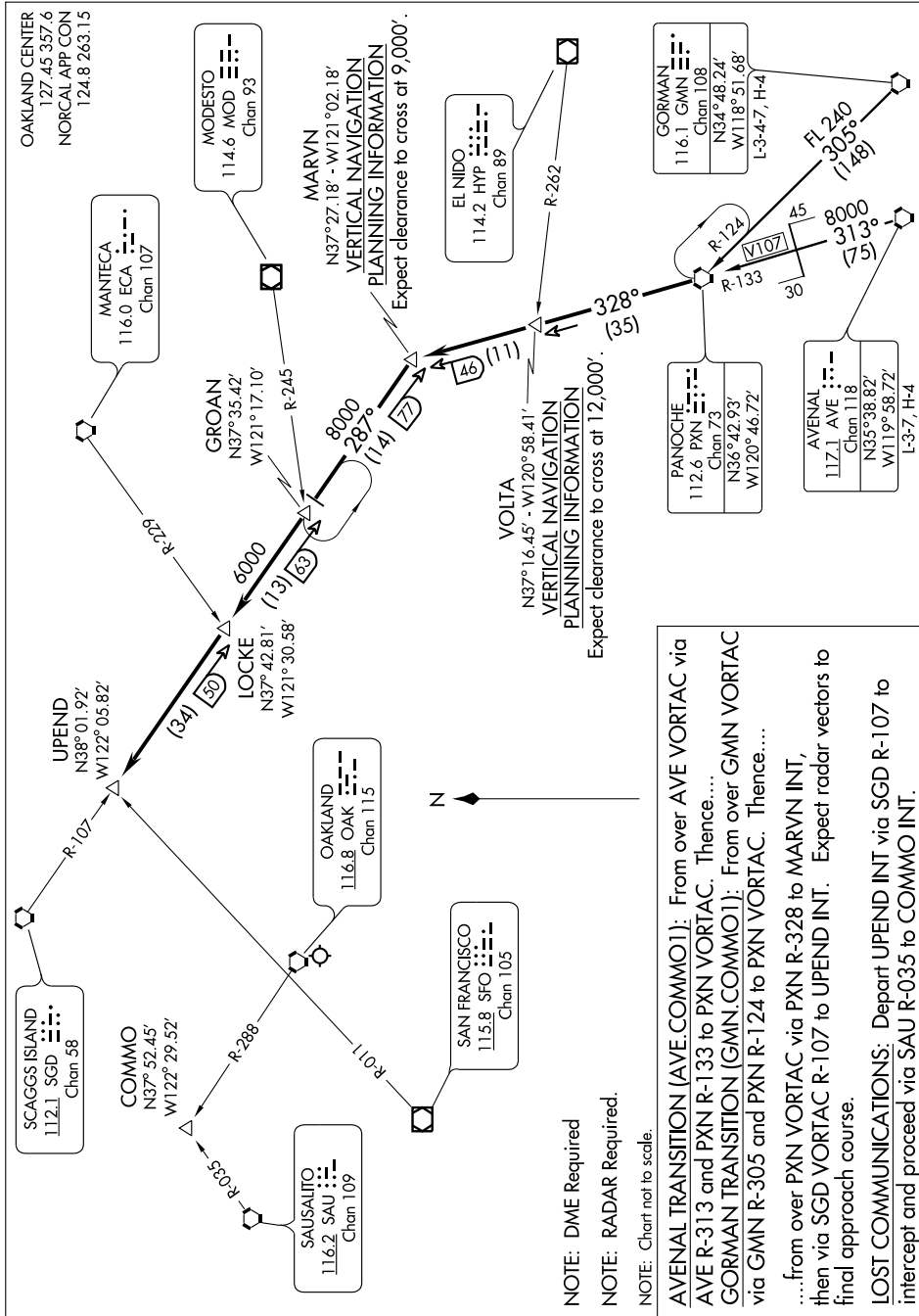
GAVIOTA TRANSITION (COAST5.GVO): from over MCKEY INT via MQO R-295 to MQO VORTAC; then via MQO R-126 and GVO R-307 to GVO VORTAC.

SAN MARCUS TRANSITION (COAST5.RZS): From over MCKEY INT via MQO R-295 to MQO VORTAC; then via MQO R-116 and RZS R-299 to RZS VORTAC.

SANTA CATALINA TRANSITION (COAST5.SXC): From over MCKEY INT via BSR R-131 and SXC R-287 to SXC VORTAC.

COMMO ONE ARRIVAL

ST-294 (FAA)

METROPOLITAN OAKLAND INTL
OAKLAND, CALIFORNIA

NORCAL APP CON
128.575 254.25
SAN FRANCISCO INTL ATIS
113.7 118.85
METROPOLITAN OAKLAND
INTL ATIS
133.775

SAUSALITO
116.2 SAU 
Chan 109
N37°51.32'
W122°31' 37'

COMMO
N37°52.45'
W122°29.52'

LOCALIZER 108.9
I-SIA
Chan 26

OAKLAND
8 OAK 
Chan 115

SAN FRANCISCO
115.8 SFO 
Chan 105

WOODSIDE
3.9 OSI ::
Chan 86

SAN JOSE
114.1 SJC 
Chn 88

SALINAS
117.3 SNS ::
Chan 120

BIG SUR
114.0 BSR 
Chan 87
°10.88'-W121°38.53'
L-3, H-4

NOTE: Chart not to scale.

From over BSR VORTAC via BSR R-309 to EUGEN INT, then via PYE R-144 to HADLY INT, then via direct SAU VORTAC. Expect vectors to final approach course. Expect clearance to cross EUGEN INT at 11000' and at 250K IAS.

LOST COMMUNICATIONS

San Francisco Intl: Depart SAU VORTAC via SAU R-071 to BERKS INT.

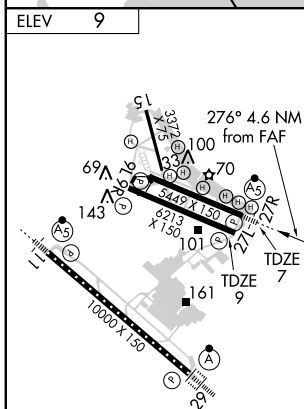
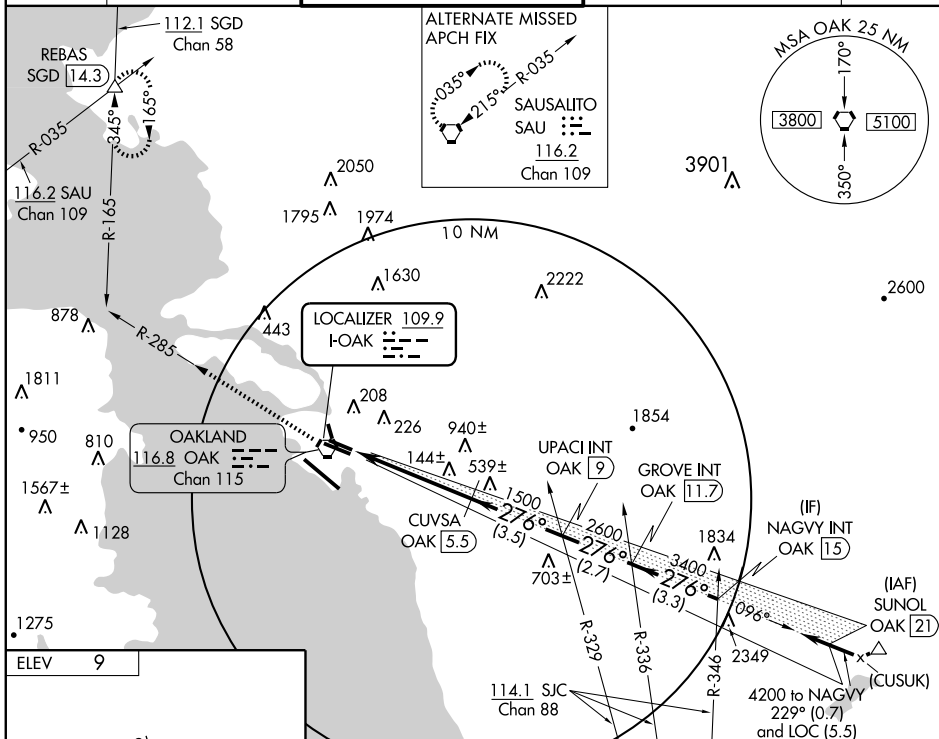
Metropolitan Oakland Intl: Depart SAU VORTAC via SAU R-035 to COMMO INT.

LOC I-OAK	APP CRS	Rwy Idg	27R	27L
109.9	276°	5449	6213	
		TDZE	7	9
		Apt Elev	9	9

ILS or LOC/DME RWY 27R

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

* RVR 1800 authorized with the use of FD or AP or HUD to DA.		MALSR Rwy 27R 	MISSED APPROACH: Climb to 3000 via OAK R-285 to intercept SGD R-165 to REBAS INT/SGD 14.3 and hold.	
ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9		GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75
				CLNC DEL 121.1



TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwys 11-29, 9L-27R, and 9R-27L

3000

↑

OAK R-285

SGD

R-165

112.1

REBAS

△

Procedure Turn NA

CUVSA

OAK

5.5

UPACI INT

OAK

9

GROVE INT

OAK

11.7

NAGVY INT

OAK

15

OAK

0.9

276°

4200

GS 2.90°

TCH 57

4.6 NM

3.5 NM

2.7 NM

3.3 NM

1500

2600

3400

CATEGORY	A	B	C	D
S-ILS 27R	*207/24 200 (200-½)			
S-LOC 27R	400/24 393 (400-½)			400/40 393 (400-¾)
SIDESTEP RWY 27L	420/50 411 (500-1)		420-1½ 411 (500-1½)	420-2 411 (500-2)
CIRCLING	520-1 511 (600-1)	540-1 531 (600-1)	540-1½ 531 (600-1½)	560-2 551 (600-2)

LOC I-AAZ <u>111.9</u>	APP CRS 114°	Rwy Idg 10000 TDZE 9 Apt Elev 9
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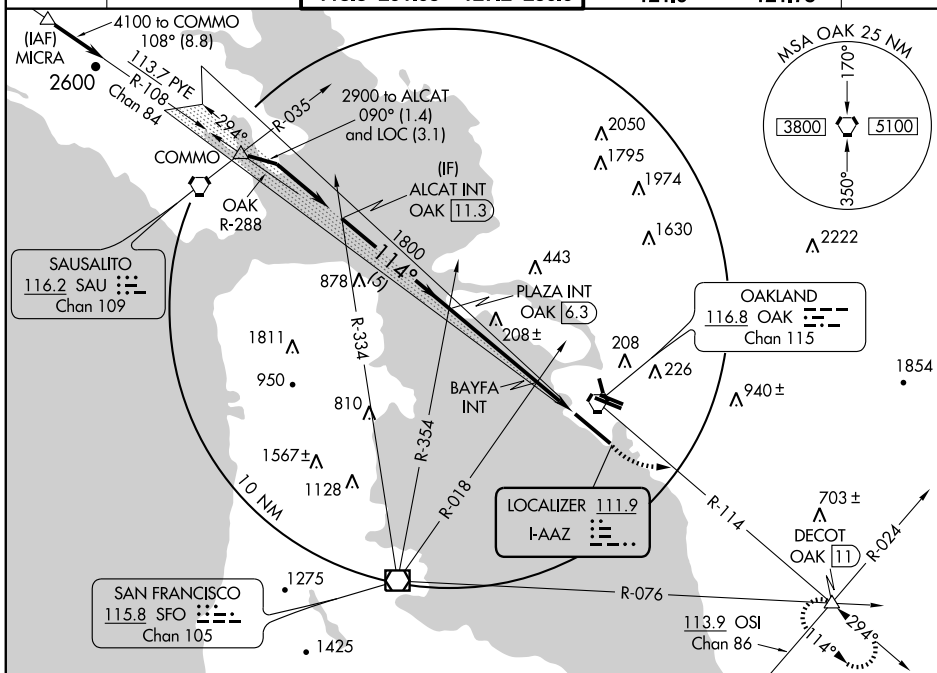
ILS or LOC RWY 11

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

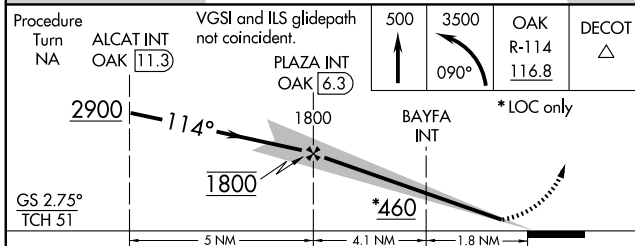


MISSED APPROACH: Climb to 500 then climbing left turn to 3500 via heading 090° and OAK VORTAC R-114 to DECOT INT/OAK 11 DME and hold.

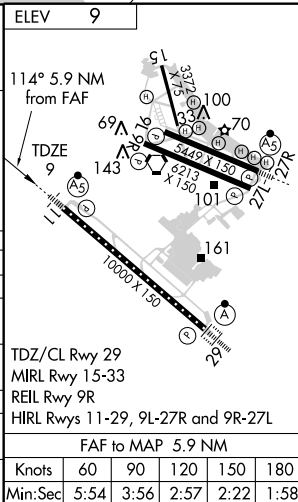
ATIS	NORCAL APP CON				OAKLAND TOWER				GND CON				CLNC DEL
					(Rwys 9-27, 15-33)		(Rwy 11-29)			(Rwys 9-27, 15-33)	(Rwy 11-29)		
133.775	125.35	310.8	354.1		118.3	291.65	127.2	256.9		121.9	121.75		121.1



SW-2. 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D
S-ILS 11	209/24 200 (200-½)			
S-LOC 11	460/24 451 (500-½)	460/40 451 (500-¾)	460/50 451 (500-1)	
CIRCLING	520-1 511 (600-1)	540-1 531 (600-1)	540-1½ 531 (600-1½)	560-2 551 (600-2)
BAYFA FIX MINIMUMS				
S-LOC 11	360/24 351 (400-½)			360/40 351 (400-¾)
CIRCLING	520-1 511 (600-1)	540-1 531 (600-1)	540-1½ 531 (600-1½)	560-2 551 (600-2)



LOC I-INB <u>108.7</u>	APP CRS 294°	Rwy Idg 10000 TDZE 9 Apt Elev 9
----------------------------------	------------------------	--

ILS or LOC RWY 29

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

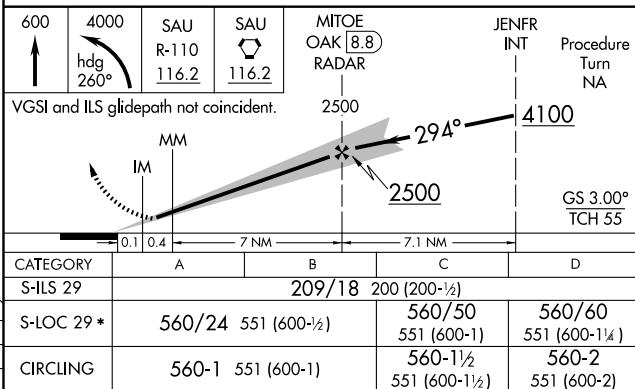
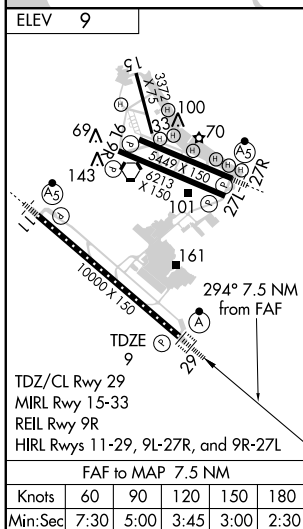
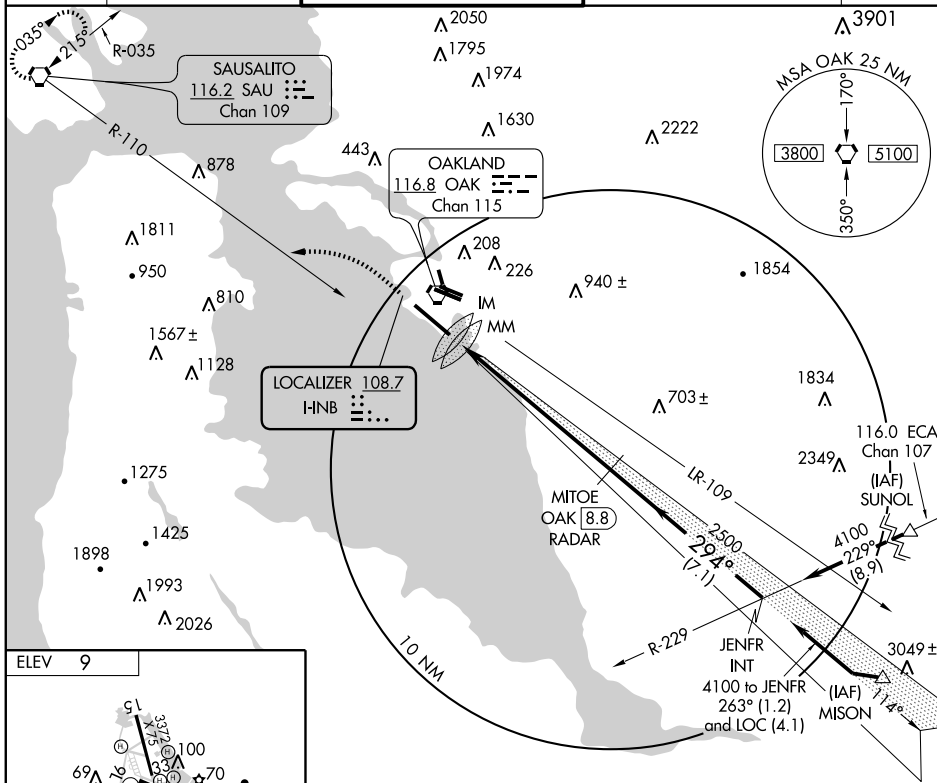


* DME or RADAR required for S-LOC 29.



MISSED APPROACH: Climb to 600 then climbing left turn to 4000 via heading 260° and SAU R-110 to SAU VORTAC and hold.

ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9		GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75		CLNC DEL 121.1
-----------------	--------------------------------------	---	--	---	--	-------------------



LOC I-INB	APP CRS	Rwy Idg	10000
108.7	294°	TDZE	9
		Apt Elev	9

ILS RWY 29 (CAT II)

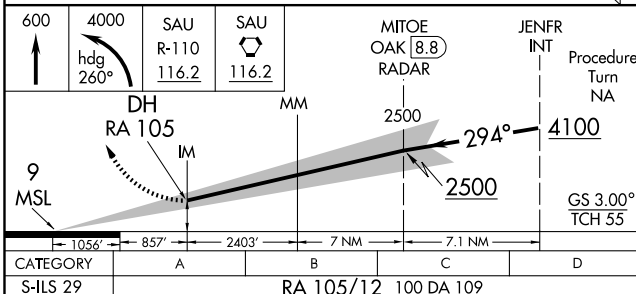
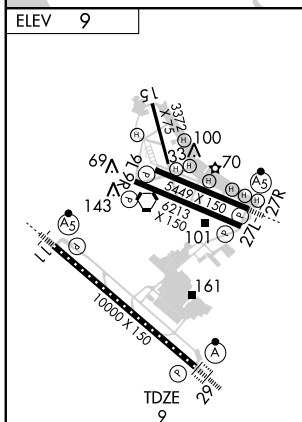
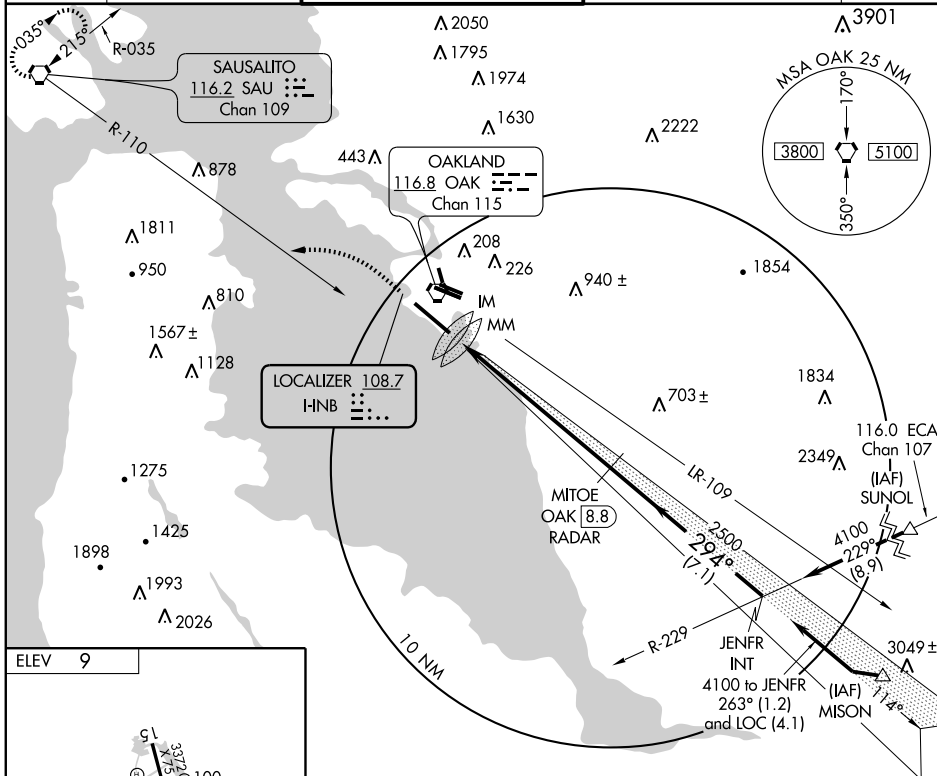
OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

Obstructions in the missed approach area require a rate of climb of at least 300 FPM/100K, 450 FPM/150K, 600 FPM/200K to 600 feet, no wind conditions.

ALSF-2


MISSED APPROACH: Climb to 600 then climbing left turn to 4000 via heading 260° and SAU R-110 to SAU VORTAC and hold.

ATIS	NORCAL APP CON	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29)	GND CON (Rwys 9-27, 15-33) (Rwy 11-29)	CLNC DEL
133.775	125.35 310.8 354.1	118.3 291.65 127.2 256.9	121.9 121.75	121.1



**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

ILS RWY 29 (CAT III)

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

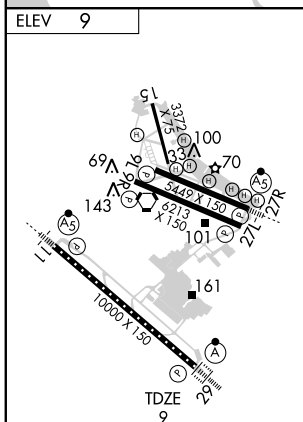
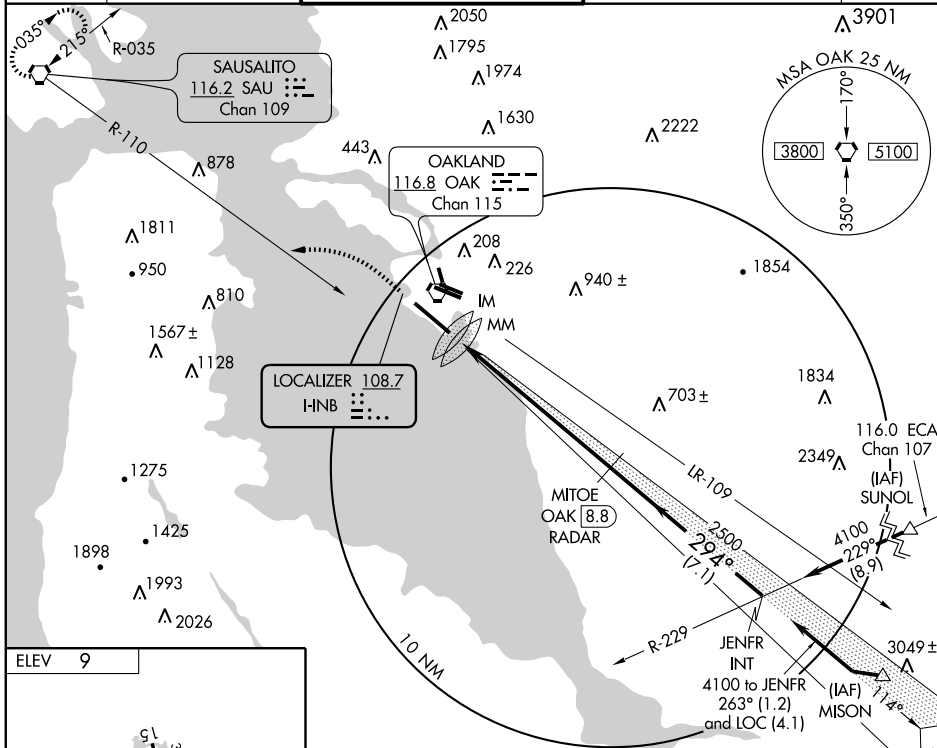
LOC I-INB	APP CRS	Rwy Idg	10000
108.7	294°	TDZE	9
		Apt Elev	9

Obstructions in the missed approach area require a rate of climb of at least 300 FPM/100K, 450 FPM/150K, 600 FPM/200K to 600 feet, no wind conditions.

ALSF-2


MISSED APPROACH: Climb to 600 then climbing left turn to 4000 via heading 260° and SAU R-110 to SAU VORTAC and hold.

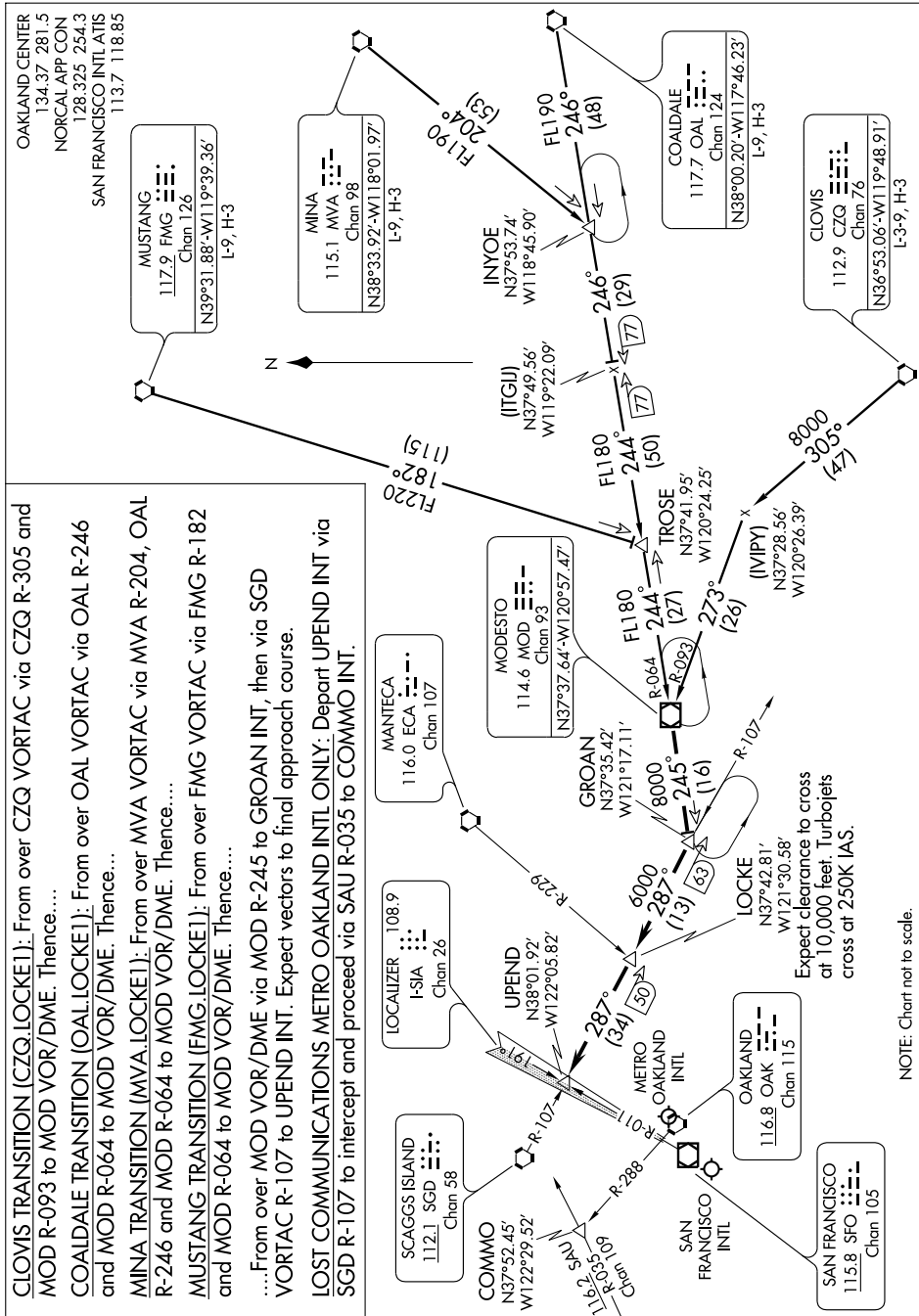
ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON	CLNC DEL
133.775	125.35 310.8 354.1	(Rwys 9-27, 15-33) 118.3 291.65 (Rwy 11-29) 127.2 256.9	(Rwys 9-27, 15-33) 121.9 (Rwy 11-29) 121.75	121.1

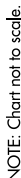


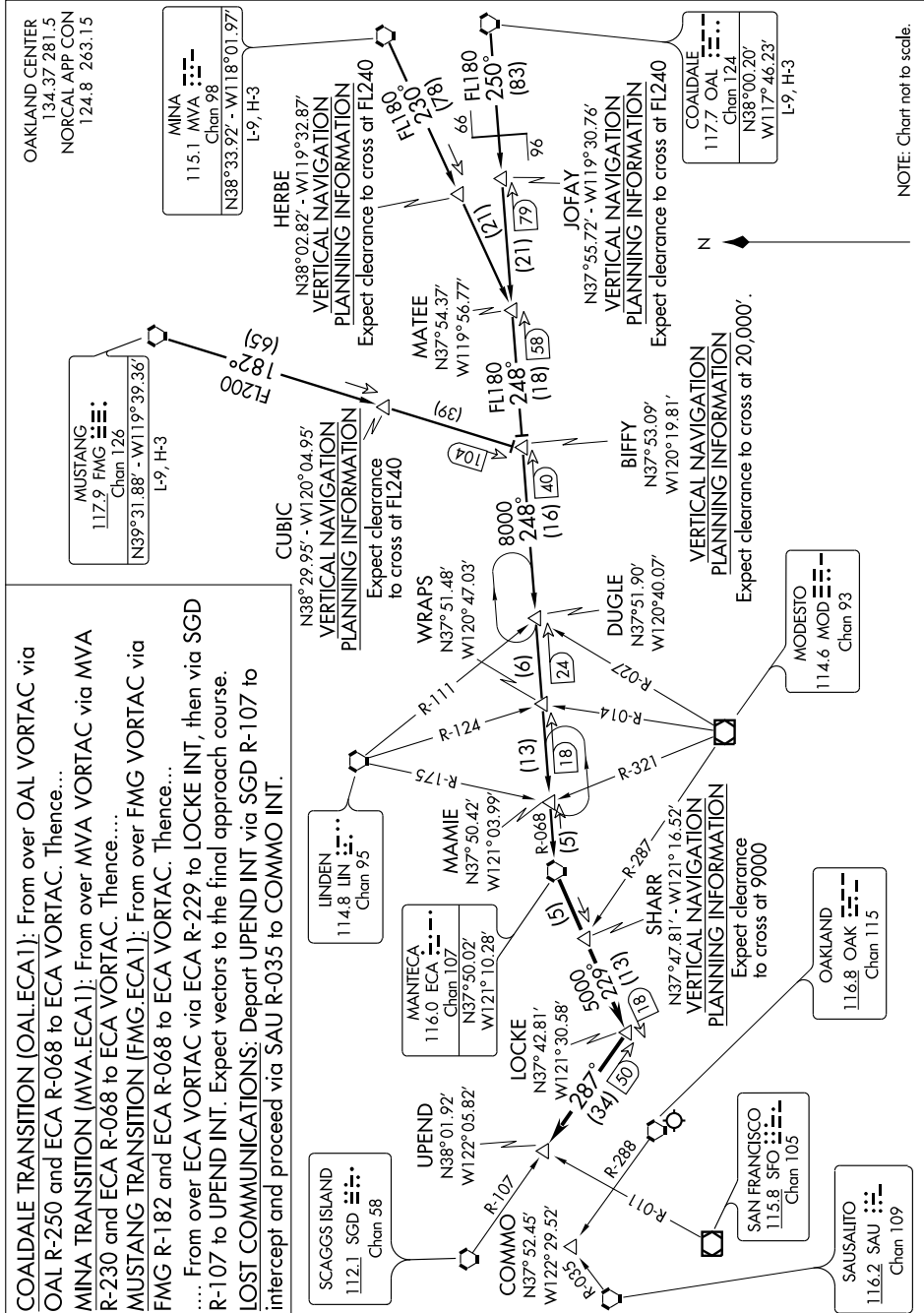
TDZ/CL Rwy 29
 MIRL Rwy 15-33
 REIL Rwy 9R
 HIRL Rwys 11-29, 9L-27R, and 9R-27L

600	4000	SAU R-110	SAU	MITOE OAK (8.8) RADAR	JENFR INT
↑	hdg 260°	116.2	116.2		Procedure Turn NA
9 MSL	IM 100	MM 233	2500	294°	4100
1056'	857'	2403'	7 NM	7.1 NM	GS 3.00° TCH 55
CATEGORY	A	B	C	D	
S-ILS 29		CAT IIIa	RVR 07		
S-ILS 29		CAT IIIb	RVR 06		
S-ILS 29		CAT IIIc	NA		

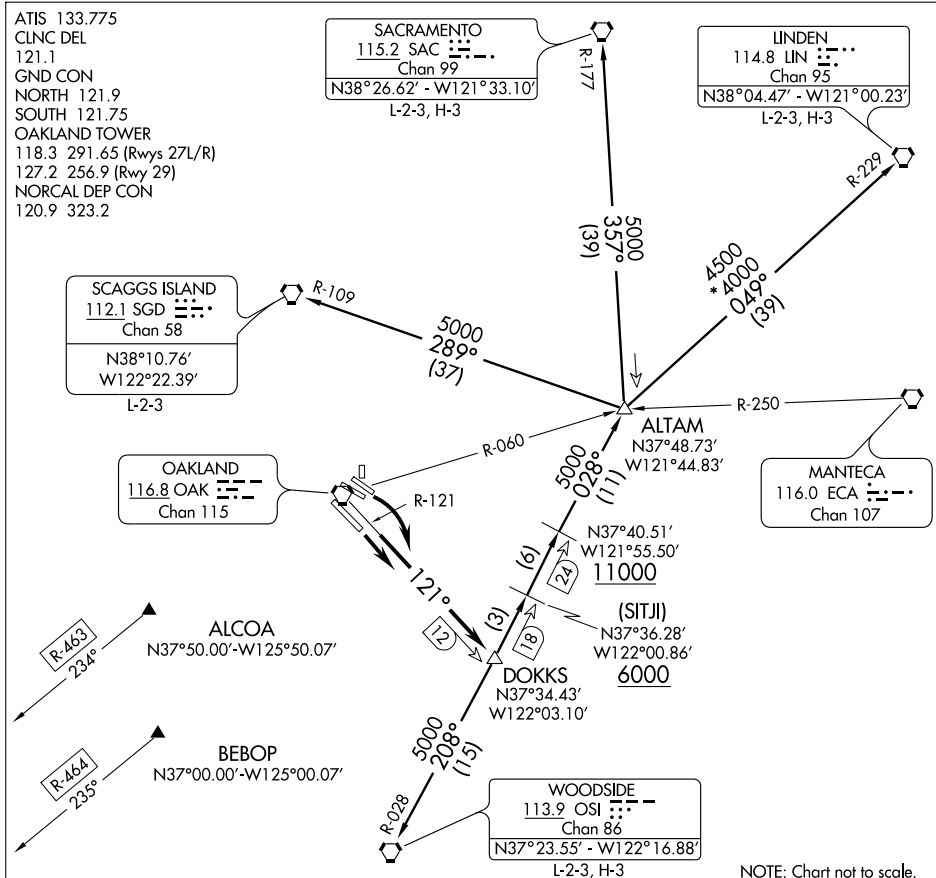
CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED







MARINA FOUR DEPARTURE

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA) OAKLAND, CALIFORNIA

SW-2, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R: Turn right and climb via OAK-121 to DOKKS INT. Thence via (transition) or (assigned route/fix). Expect clearance to filed altitude ten minutes after departure.

TAKE-OFF RUNWAY 11: Maintain runway heading to intercept and proceed via the OAK R-121 to DOKKS INT. Thence via (transition) or (assigned route/fix). Expect clearance to filed altitude ten minutes after departure.

LINDEN TRANSITION (MARI4.LIN): From over DOKKS INT via OSI R-028 and LIN R-229 to LIN VORTAC. Cross OSI R-028 18 DME at or above 6000', OSI R-028 24 DME at or above 11000'.

SACRAMENTO TRANSITION (MARI4.SAC): From over DOKKS INT via OSI R-028 and SAC R-177 to SAC VORTAC. Cross OSI R-028 18 DME at or above 6000' and OSI R-028 24 DME at or above 11000'.

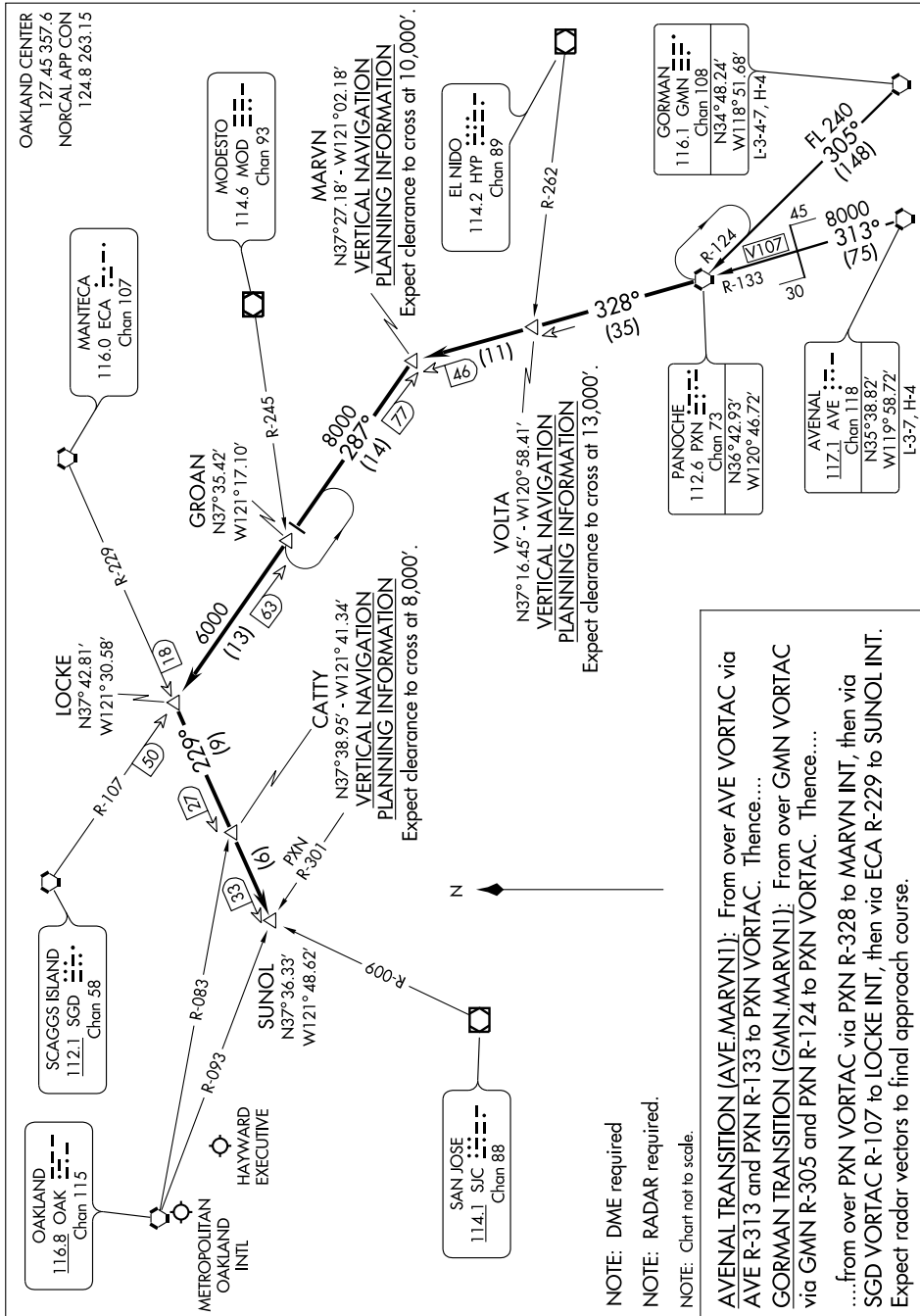
SCAGGS ISLAND TRANSITION (MARI4.SGD): From over DOKKS INT via OSI R-028 and SGD R-109 to SGD VORTAC. Cross OSI R-028 18 DME at or above 6000' and OSI R-028 24 DME at or above 11000'.

WOODSIDE TRANSITION (MARI4.OSI): From over DOKKS INT via OSI R-028 to OSI VORTAC.

MARVN ONE ARRIVAL

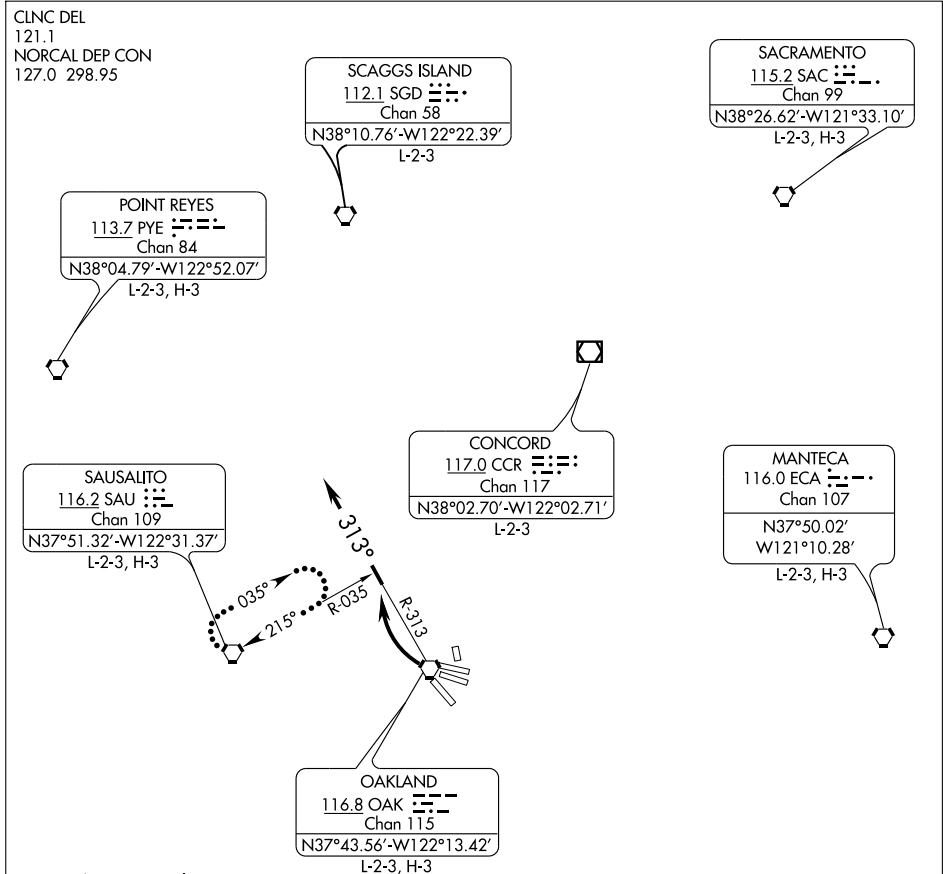
ST-294 (FAA)

OAKLAND, CALIFORNIA



NIMITZ TWO DEPARTURE

SL-294 (FAA)

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
OAKLAND, CALIFORNIA

NOTE: Chart not to scale.

NOTE: RADAR required.

NOTE: Departure Rwy 27L/R: A minimum climb of 375' per NM to 2000' is required.

DEPARTURE ROUTE DESCRIPTION

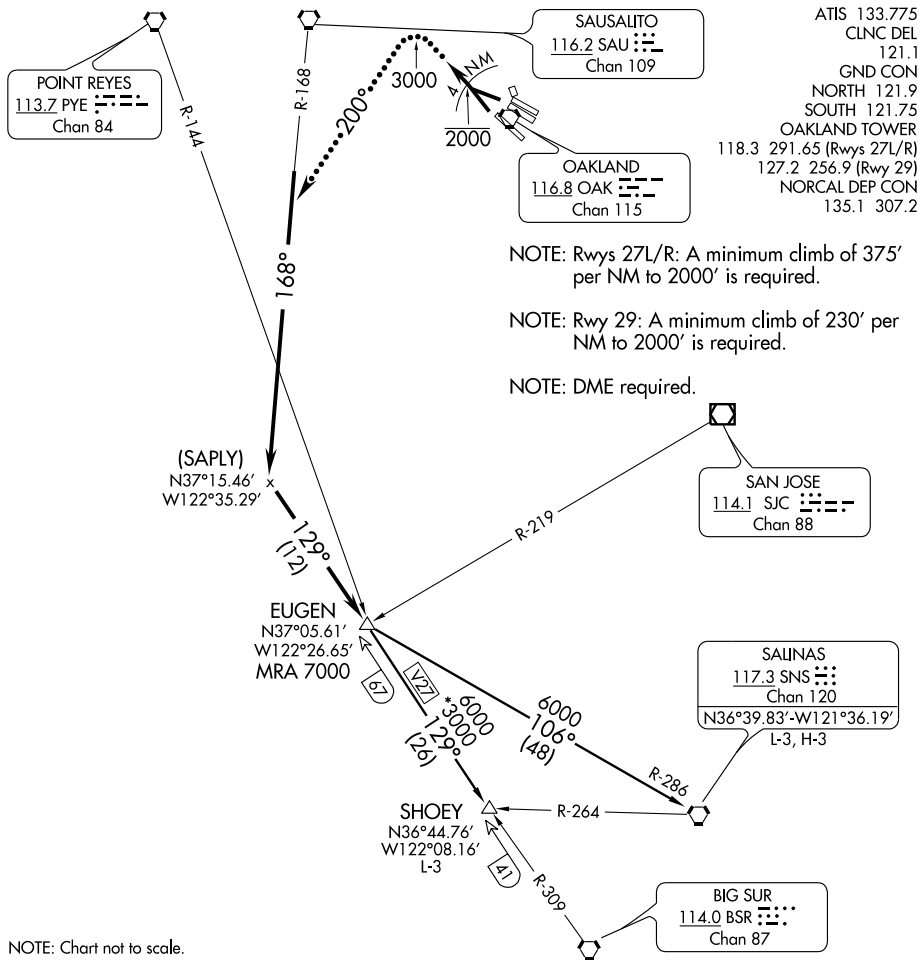
TAKE-OFF RUNWAYS 27L/R and 29: Turn right, intercept and proceed via OAK R-313 for vectors to assigned fix/route. Expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure after reaching 3000', proceed direct to SAU VORTAC and hold on SAU R-035. Climb in holding pattern to assigned altitude, then proceed to assigned fix/route.

NUEVO FIVE DEPARTURE

SL-294 (FAA)

OAKLAND, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 27L/R and 29: Maintain runway heading for vector to the SAU R-168. Cross 4 miles northwest of OAK VORTAC at or below 2000'. Then via the SAU R-168 and the BSR R-309 to EUGEN INT. Then via (transition) or (assigned route). Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: Take-off runways 27L/R and 29: After reaching 3000', turn left heading 200°, intercept the SAU R-168, resume own navigation.

SALINAS TRANSITION (NUEVO5.SNS): From over EUGEN INT via the SNS R-286 to SNS VORTAC.

SHOEY TRANSITION (NUEVO5.SHOEY): From over EUGEN INT via the BSR R-309 to SHOY INT.

OAKLAND FIVE DEPARTURE

SL-294 (FAA)

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
OAKLAND, CALIFORNIA

ATIS
133.775
CLNC DEL
121.1
NORCAL DEP CON
120.9 323.2

MENDOCINO
112.3 ENI
Chan 70
N39°03.19'-W123°16.45'
L-2, H-3

WILLIAMS
114.4 ILA
Chan 91
N39°04.27'-W122°01.64'
L-2-3

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

SCAGGS ISLAND
112.1 SGD
Chan 58
N38°10.76'-W122°22.39'
L-2-3

SACRAMENTO
115.2 SAC
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3

POINT REYES
113.7 PYE
Chan 84
N38°04.79'-W122°52.07'
L-2-3, H-3

CONCORD
117.0 CCR
Chan 117
N38°02.70'
W122°02.71'
L-2-3

SAUSALITO
116.2 SAU
Chan 109
N37°51.32'-W122°31.37'
L-2-3, H-3

LINDEN
114.8 LIN
Chan 95
N38°04.48'-W121°00.23'
L-2-3, H-3

MANTECA
116.0 ECA
Chan 107
N37°50.02'
W121°10.28'
L-2-3, H-3

WOODSIDE
113.9 OSI
Chan 86
N37°23.55'-W122°16.88'
L-2-3, H-3

HADLY
N37° 24.16'
W122°34.54'
L-2-3

OAKLAND
116.8 OAK
Chan 115
N37°43.56'-W122°13.42'
L-2-3, H-3

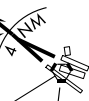
BEBOP
N37°00.00'
W125°00.07'

ALCOA
N37°50.00'
W125°50.07'

R-463
234°

R-464
235°

2000



R-144

R-204

NOTE: Chart not to scale.

NOTE: DME required.

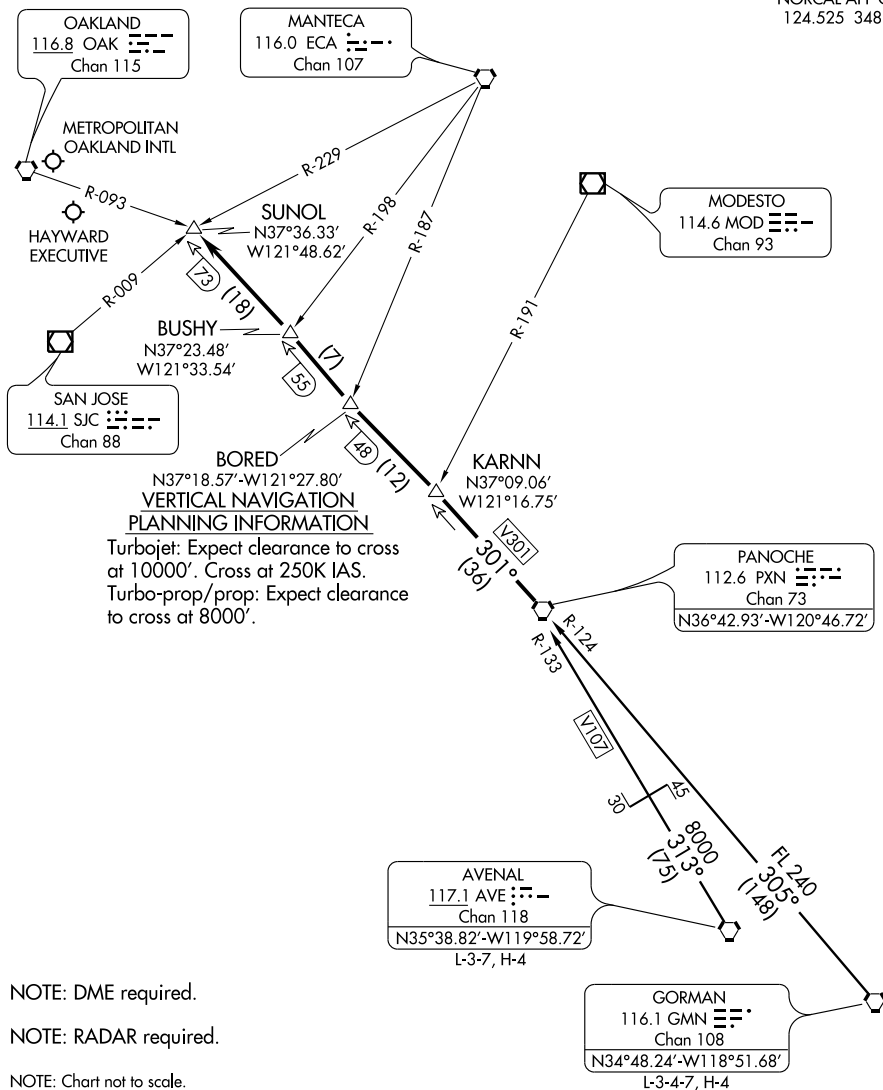
NOTE: Rwy 27L/R: a minimum climb of 375' per NM to 2000' is required.
Rwy 29: a minimum climb of 230' per NM to 2000' is required.

NOTE: Use the SILENT DEPARTURE during the time periods of 2200-0700 local in lieu of the OAKLAND DEPARTURE.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 27L/R and 29: Climb via runway heading or as assigned for vector to assigned route/fix. Cross 4 miles northwest of OAK VORTAC at or below 2000', maintain assigned altitude. Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control after reaching 3000', continue climb to assigned altitude and proceed direct to assigned route/fix.

NORCAL APP CON
124.525 348.675

AVENAL TRANSITION (AVE.PXN2): From over AVE VORTAC via AVE R-313 and PXN R-133 to PXN VORTAC. Thence....

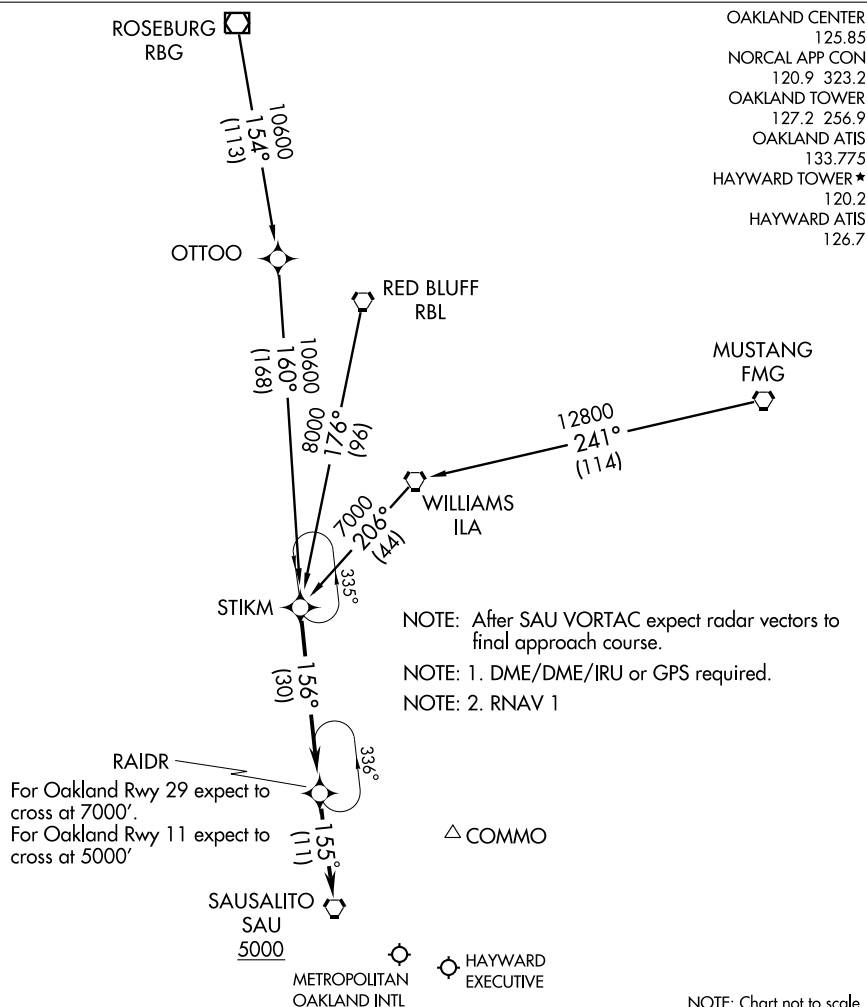
GORMAN TRANSITION (GMN. PXN2): From over GMN VORTAC via GMN R-305 and PXN R-124 to PXN VORTAC. Thence....

....From over PXN VORTAC via PXN R-301 to SUNOL INT. Expect radar vectors to the final approach course.

RAIDR TWO ARRIVAL (RNAV)

ST-294 (FAA)

OAKLAND, CALIFORNIA

MUSTANG TRANSITION (FMG.RAIDR2)RED BLUFF TRANSITION (RBL.RAIDR2)ROSEBURG TRANSITION (RBG.RAIDR2)

From over STIKM WP via 156° track to RAIDR WP, thence as depicted to cross SAU VORTAC at or above 5000. Expect radar vectors to final approach course.

LOST COMMUNICATIONS:

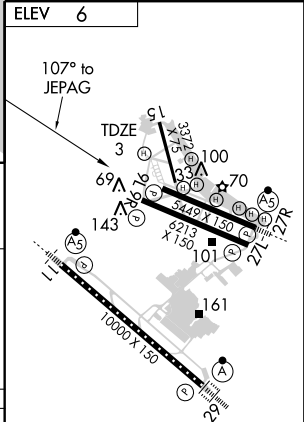
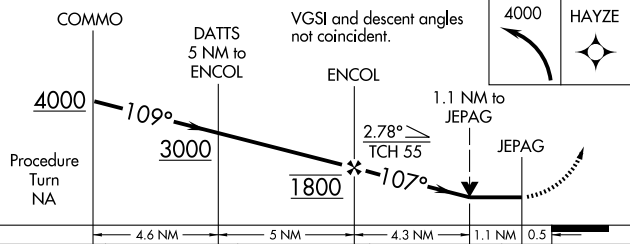
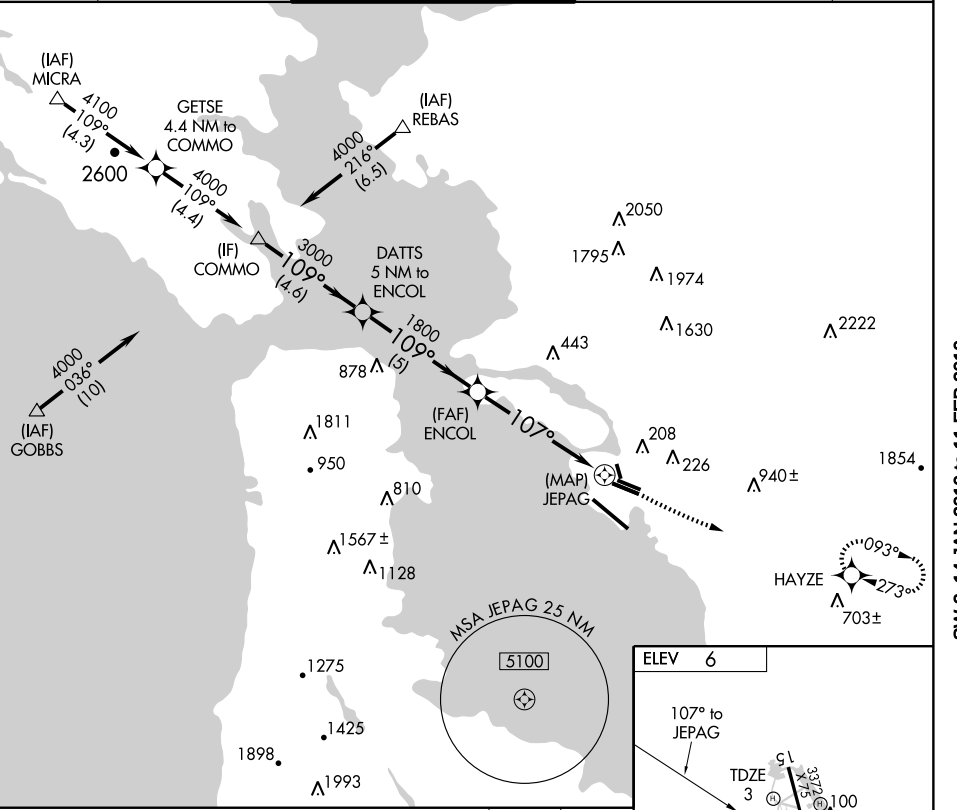
Depart SAU VORTAC and proceed direct to COMMO INT.

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4000 direct HAYZE WP and hold.

ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9	GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75	CLNC DEL 121.1
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CATEGORY	A	B	C	D	TDZ/CL Rwy 29 MIRL Rwy 15-33 REIL Rwy 9R HIRL Rwys 11-29, 9L-27R, and 9R-27L
LNAV MDA	540-1 537 (600-1)		540-1½ 537 (600-1½)	540-1¾ 537 (600-1¾)	
CIRCLING	540-1 534 (600-1)		540-1½ 534 (600-1½)	560-2 554 (600-2)	

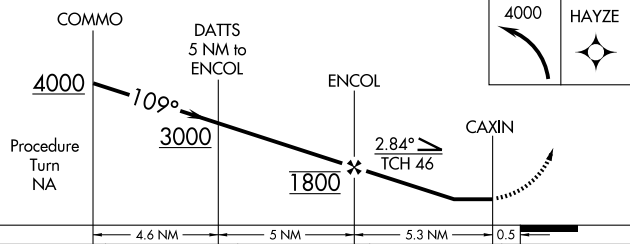
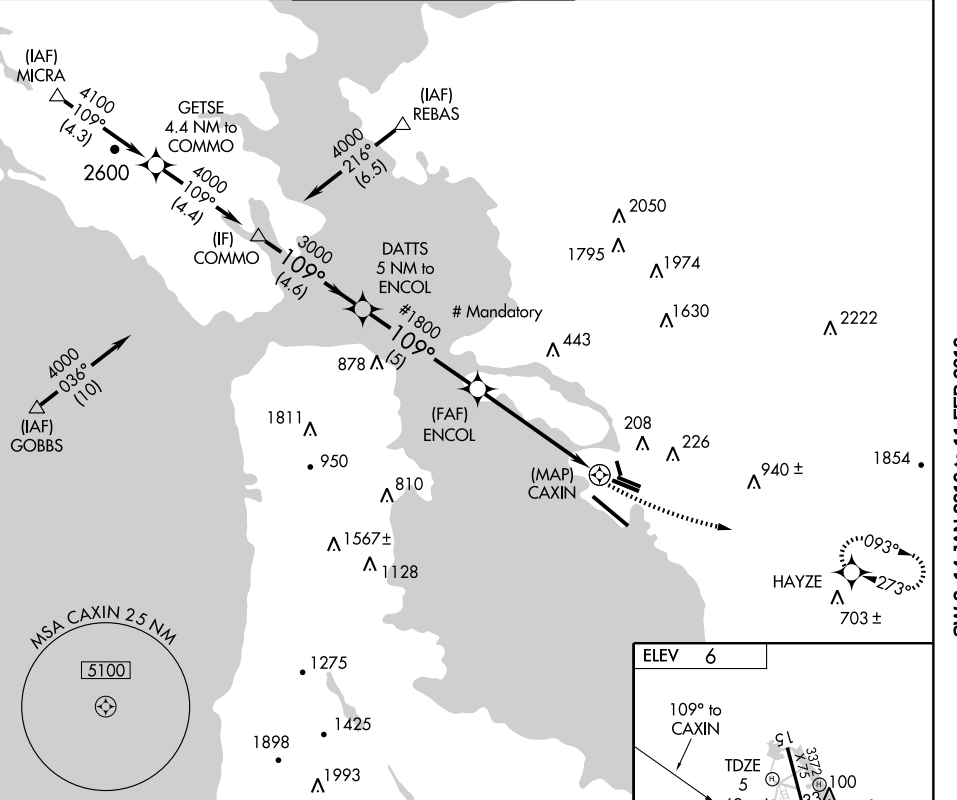
SW-2, 14 JAN 2010 to 11 FEB 2010

NA

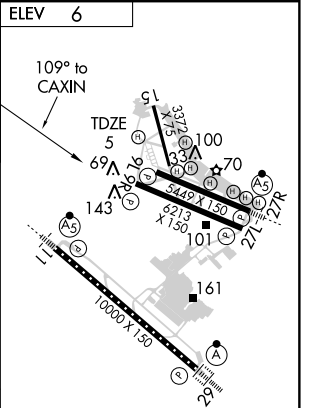
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4000 direct HAYZE WP and hold.

ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9	GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75	CLNC DEL 121.1
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CATEGORY	A	B	C	D
LNAV MDA	520-1 515 (600-1)	520-1½ 515 (600-1½)	520-1¾ 515 (600-1¾)	520-2 515 (600-2)
CIRCLING	520-1 514 (600-1)	540-1 534 (600-1)	540-1½ 534 (600-1½)	560-2 554 (600-2)



TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwys 11-29, 9L-27R, and 9R-27L

▼

W

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -15°C (5°F).

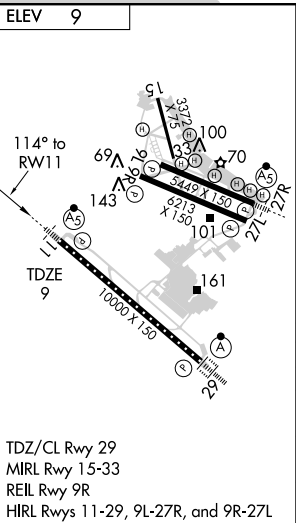
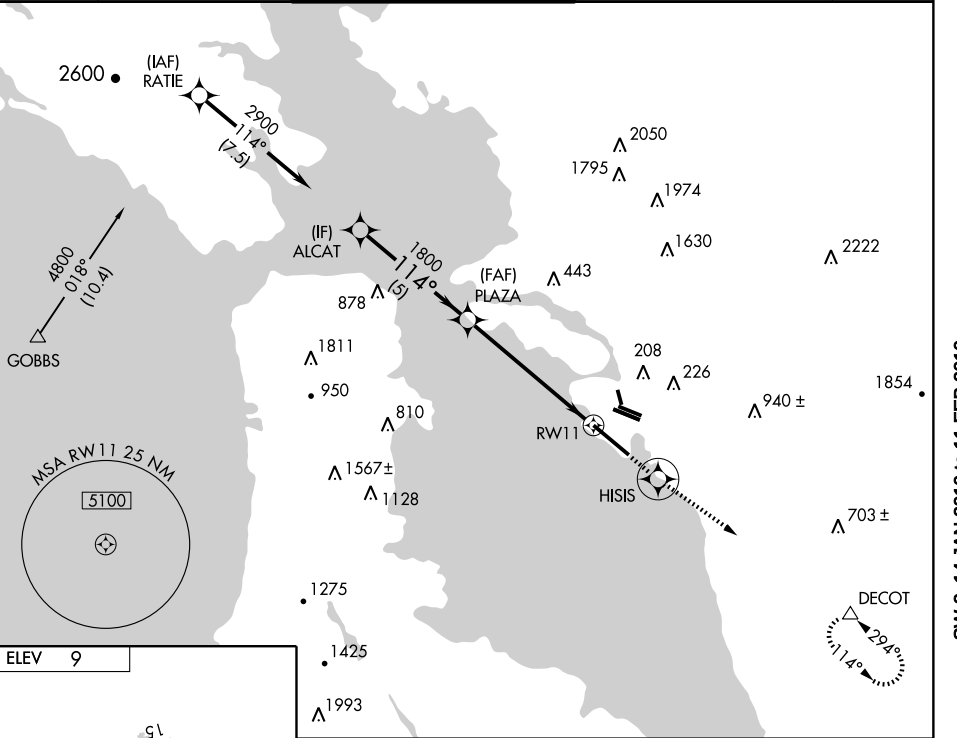
MALSR

AS

⋮

MISSED APPROACH: Climb to 3500 direct HISIS WP, then left turn direct DECOT WP and hold.

ATIS	NORCAL APP CON	OAKLAND TOWER				GND CON		CLNC DEL
133.775	125.35 310.8 354.1	(Rwys 9-27, 15-33)	(Rwy 11-29)			(Rwys 9-27, 15-33)	(Rwy 11-29)	
		118.3 291.65	127.2 256.9			121.9	121.75	121.1



Procedure Turn NA	ALCAT			
	2900			
CATEGORY	PLAZA			
	1800			
GLS PA DA	3500 HISIS DECOT			
	*1.4 NM to RW11			
LNNAV/VNAV DA	*LNNAV only			
	RW11			
LNNAV MDA	5 NM 4.5 NM 1.4			
	333/40 324 (400-34)			
CIRCLING	NA			
	460/24 451 (500-1/2) 460/40 451 (500-3/4) 460/50 451 (500-1)			
CIRCLING	520-1 1/4 511 (600-1 1/4) 540-1 1/4 531 (600-1 1/4) 540-1 1/2 531 (600-1 1/2) 560-2 551 (600-2)			

WAAS CH 72700 W27A	APP CRS 276°	Rwy Idg 6213 TDZE 9 Apt Elev 9
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RNAV (GPS) RWY 27L

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

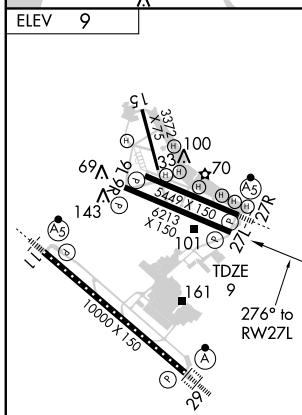
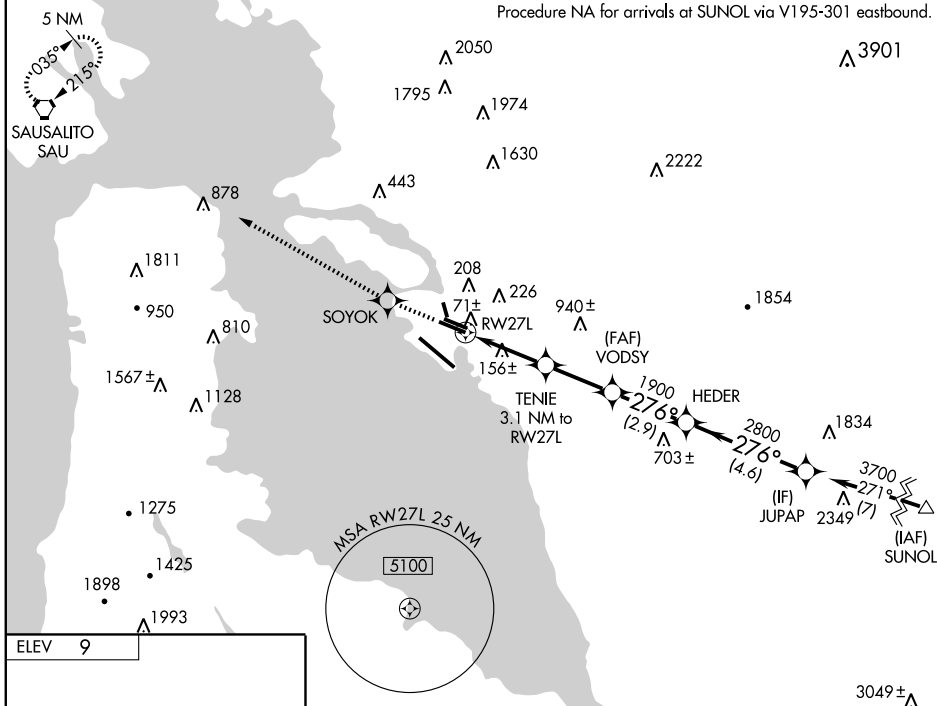


For uncompensated Baro-VNAV systems, LNAV/VNAV NA
below -15°C (5°F) or above 49°C (120°F)
DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 4000 direct SOYOK then via 283° track to SAU VORTAC and hold, continue climb-in-hold to 4000.

ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9		GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75		CLNC DEL 121.1
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Procedure NA for arrivals at SUNOL via V195-301 eastbound.



4000 ↑	SOYOK ✦	283° track	SAU ◻					
*LNAV only				TENIE 3.1 NM to RW27L	VODSY	HEDER	JUPAP	
RW27L *1.1 NM to RW27L				1060*	1900	276° 2800	3700 Procedure Turn NA GS 3.00° TCH 55'	
1.1				2 NM	2.6 NM	2.9 NM	4.6 NM	
CATEGORY		A		B		C		D
LPV	DA			259/40		250 (300-¾)		
LNAV/ VNAV	DA			359/60		350 (400-1¼)		
LNAV	MDA	420/50		411 (500-1)		420/60		411 (500-1¼)
CIRCLING		520-1¼ 511 (600-1¼)		540-1¼ 531 (600-1¼)		540-1½ 531 (600-1½)		560-2 551 (600-2)

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TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwy 11-29, 9L-27R, and 9R-27L

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

NA For inoperative MALSR increase Cat D visibility to RVR 6000.

MALSR

MISSED APPROACH: Climbing right turn to 3100 direct PEERE WP and hold.

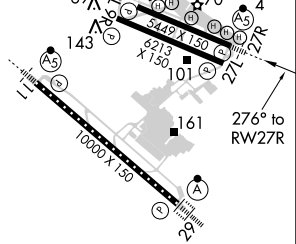
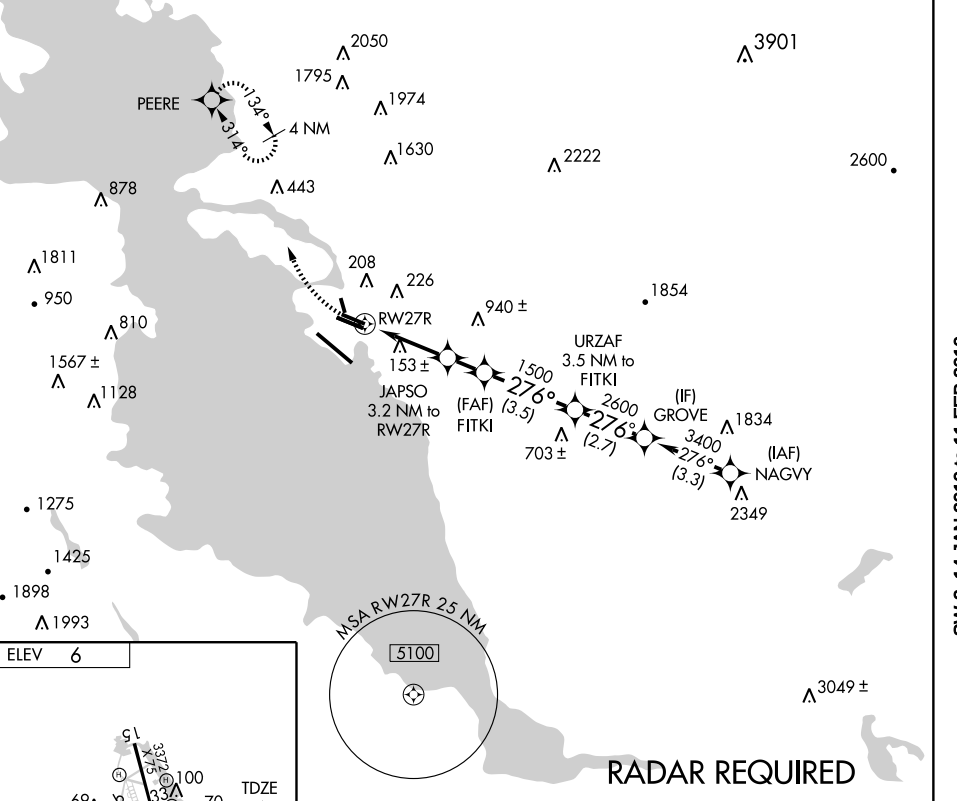
ATIS
133.775

NORCAL APP CON
125.35 310.8 354.1

OAKLAND TOWER
(Rwys 9-27, 15-33) (Rwy 11-29)
118.3 291.65 127.2 256.9

GND CON
(Rwys 9-27, 15-33) (Rwy 11-29)
121.9 121.75

CLNC DEL
121.1



TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwys 11-29, 9L-27R, and 9R-27L

3100 PEERE				
RWY 27R 1.1 NM to RWY 27R JAPSO 3.2 NM to RWY 27R FITKI 1.4 NM URZAF 3.5 NM to FITKI GROVE 2.7 NM 276° 3400 2600 1500 1060 1.1 NM 2.1 NM 1.4 NM 3.5 NM 2.7 NM				
CATEGORY	A		B	
LNNAV MDA	420/24		416 (500-½)	
CIRCLING	420/40		416 (500-¾)	
	520-1		540-1½	
	514 (600-1)		534 (600-1½)	
540-1		560-2		
534 (600-1)		554 (600-2)		

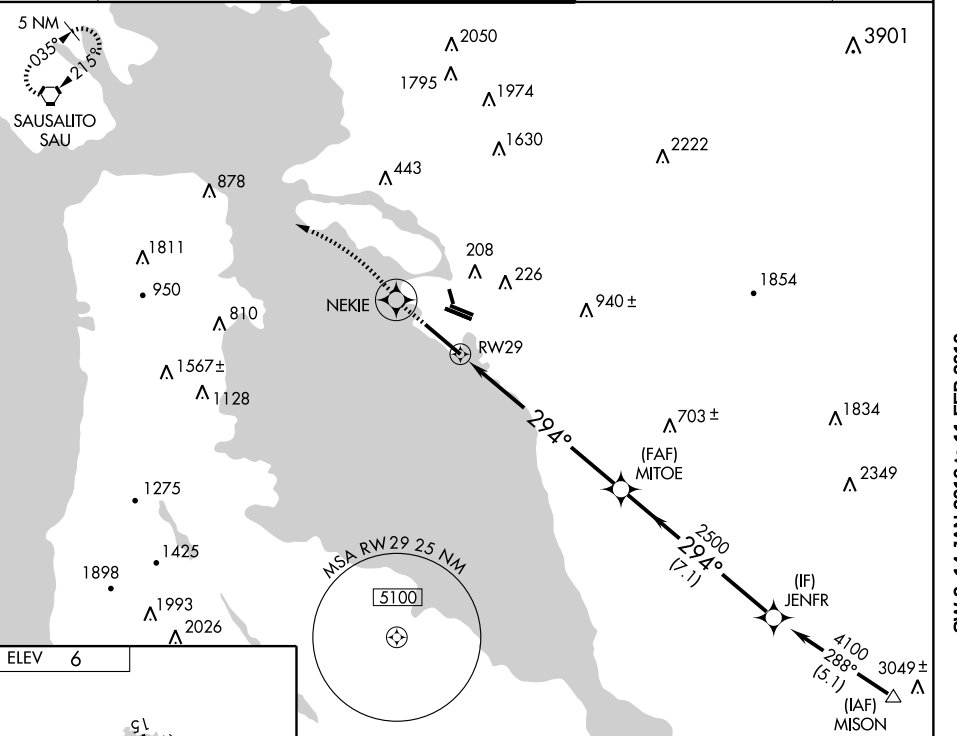
APP CRS	Rwy Idg	10000
294°	TDZE	6
	Apt Elev	6

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Baro-VNAV NA below -15°C (5°F). For inoperative ALSF, increase LNAV/VNAV Cat. D

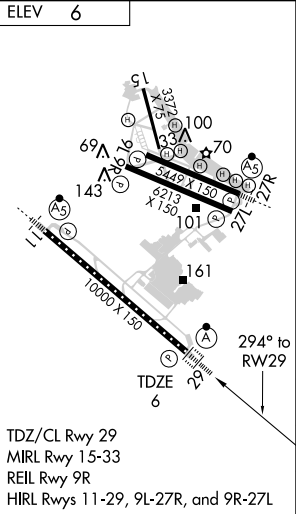
ALSF-2

MISSED APPROACH: Climb to 4000 direct NEKIE WP, then left turn direct SAU VORTAC and hold.

ATIS	NORCAL APP CON	OAKLAND TOWER	GND CON	CLNC DEL
133.775	125.35 310.8 354.1	(Rwys 9-27, 15-33) 118.3 291.65 (Rwy 11-29) 127.2 256.9	(Rwys 9-27, 15-33) 121.9 (Rwy 11-29) 121.75	121.1



ELEV 6



4000

NEKIE

SAU

MITOE

JENFR

Procedure Turn NA

*LNAV only

*1.6 NM to RW29

294°

2500

4100

GS 3.00°

TCH 55

CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	300/24 294 (300-½)			300/40 294 (300-¾)
LNAV MDA	580/24 574 (600-½)		580/50 574 (600-1)	580/60 574 (600-1¼)
CIRCLING	580-1 574 (600-1)		580-1½ 574 (600-1½)	580-2 574 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

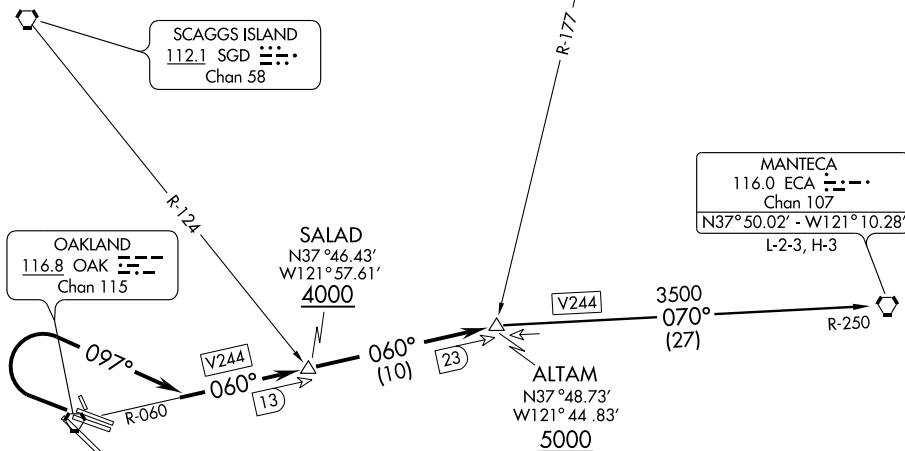
(SALAD1.ALTAM) 09127 SALAD ONE DEPARTURE

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA) OAKLAND, CALIFORNIA

ATIS 133.775
CLNC DEL
121.1
GND CON
NORTH 121.9
SOUTH 121.75
OAKLAND TOWER
118.3 291.65 (Rwys 27L/R)
127.2 256.9 (Rwy 29)
NORCAL DEP CON
120.9 323.2

SCAGGS ISLAND
112.1 SGD
Chan 58

SACRAMENTO
115.2 SAC
Chan 99



TAKE-OFF MINIMUMS

Rwys 9L/R, 11, 15, 29, 33: not authorized.

Rwy 27L/R: 2100-3 or standard with a minimum climb of 270' per NM to 2000.

NOTE: For use 2200-0600L.

NOTE: For Cat A/B prop aircraft only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 27 L/R: Climbing right turn heading 097° to intercept and proceed via OAK VORTAC R-060 (V28-109-244-392) to ALTAM INT. Cross SALAD INT/OAK 13 DME at or above 4000, cross ALTAM INT/OAK 23 DME at or above 5000. Then via transition or assigned route. Expect clearance to filed altitude 10 minutes after departure.

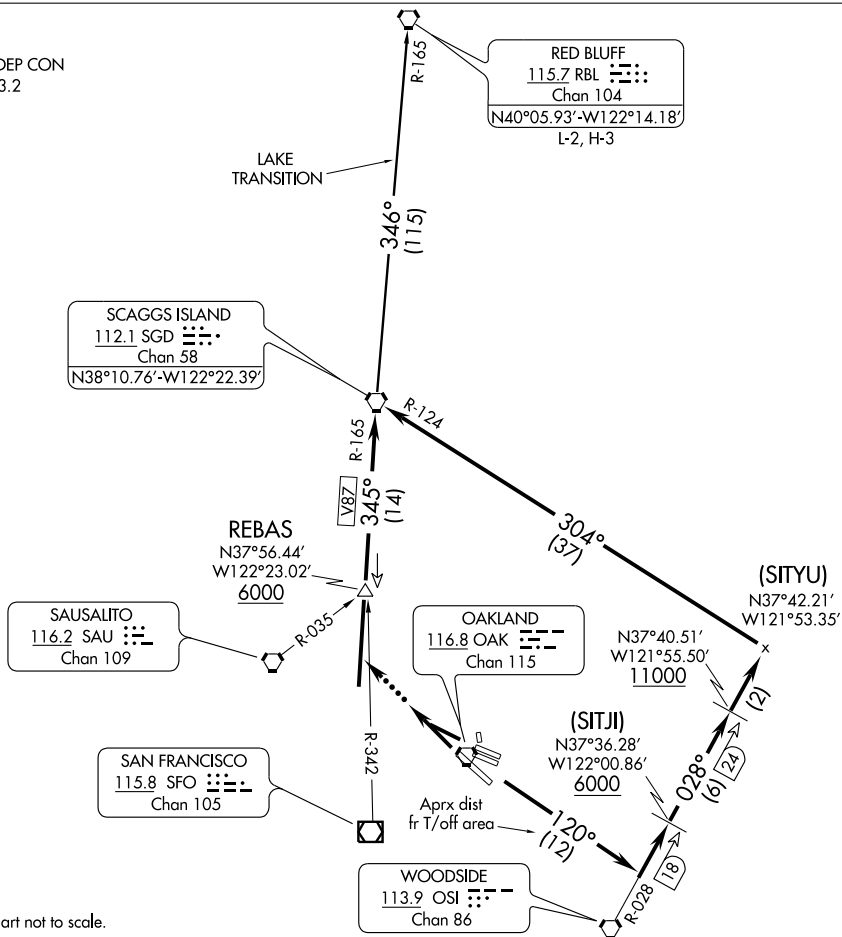
MANTECA TRANSITION (SALAD1.ECA): From over ALTAM INT via ECA R-250 to ECA VORTAC.

SCAGGS ISLAND ONE DEPARTURE

SL-294 (FAA)

OAKLAND, CALIFORNIA

CLNC DEL
121.1
NORCAL DEP CON
120.9 323.2



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R AND 11: Turn right heading 120° to intercept and proceed via the OSI R-028 to intercept and proceed via the SGD R-124 to SGD VORTAC. Thence via (transition) or (assigned route). Expect clearance to filed altitude ten minutes after departure.

TAKE-OFF RUNWAYS 27L/R AND 29: Maintain runway heading for vector to the SGD R-165, then via the SGD R-165 to the SGD VORTAC. Cross the SGD R-165 14 DME at or above 6000'. Thence via (transition) or (assigned route). Expect clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: Take-off runways 27L/R and 29: Intercept the SGD R-165, resume normal navigation.

LAKE TRANSITION (SGD1.RBL): From over SGD VORTAC via SGD R-346 and RBL R-165 to RBL VORTAC.

SILENT SEVEN DEPARTURE

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA) OAKLAND, CALIFORNIA

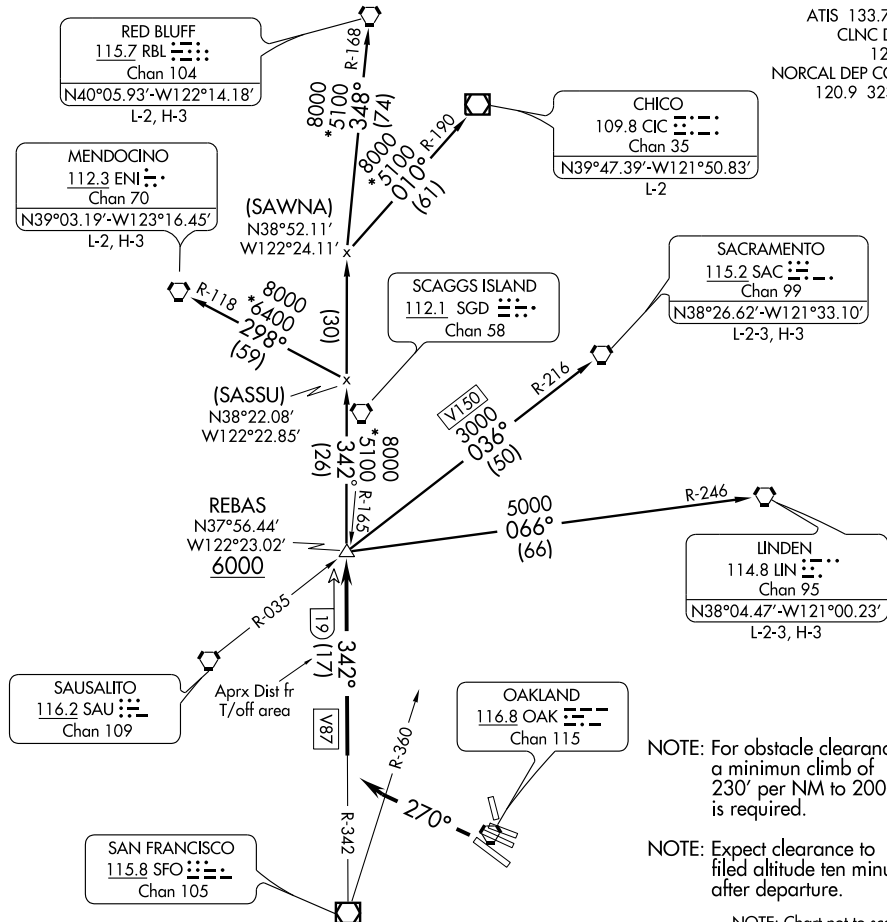
ATIS 133.775

CLNC DEL

121.1

NORCAL DEP CON

120.9 323.2



NOTE: For obstacle clearance a minimum climb of 230' per NM to 2000' is required.

NOTE: Expect clearance to filed altitude ten minutes after departure.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 29: Turn left heading 270° to intercept and proceed via SFO R-342 (commence right turn at SFO R-360) to REBAS INT. Cross REBAS INT at or above 6000'. Thence via (transition) or (assigned route).

CHICO TRANSITION (SLNT7.CIC): From over REBAS INT via SFO R-342 and CIC R-190 to CIC VOR/DME.

LINDEN TRANSITION (SLNT7.LIN): From over REBAS INT via LIN R-246 to LIN VORTAC.

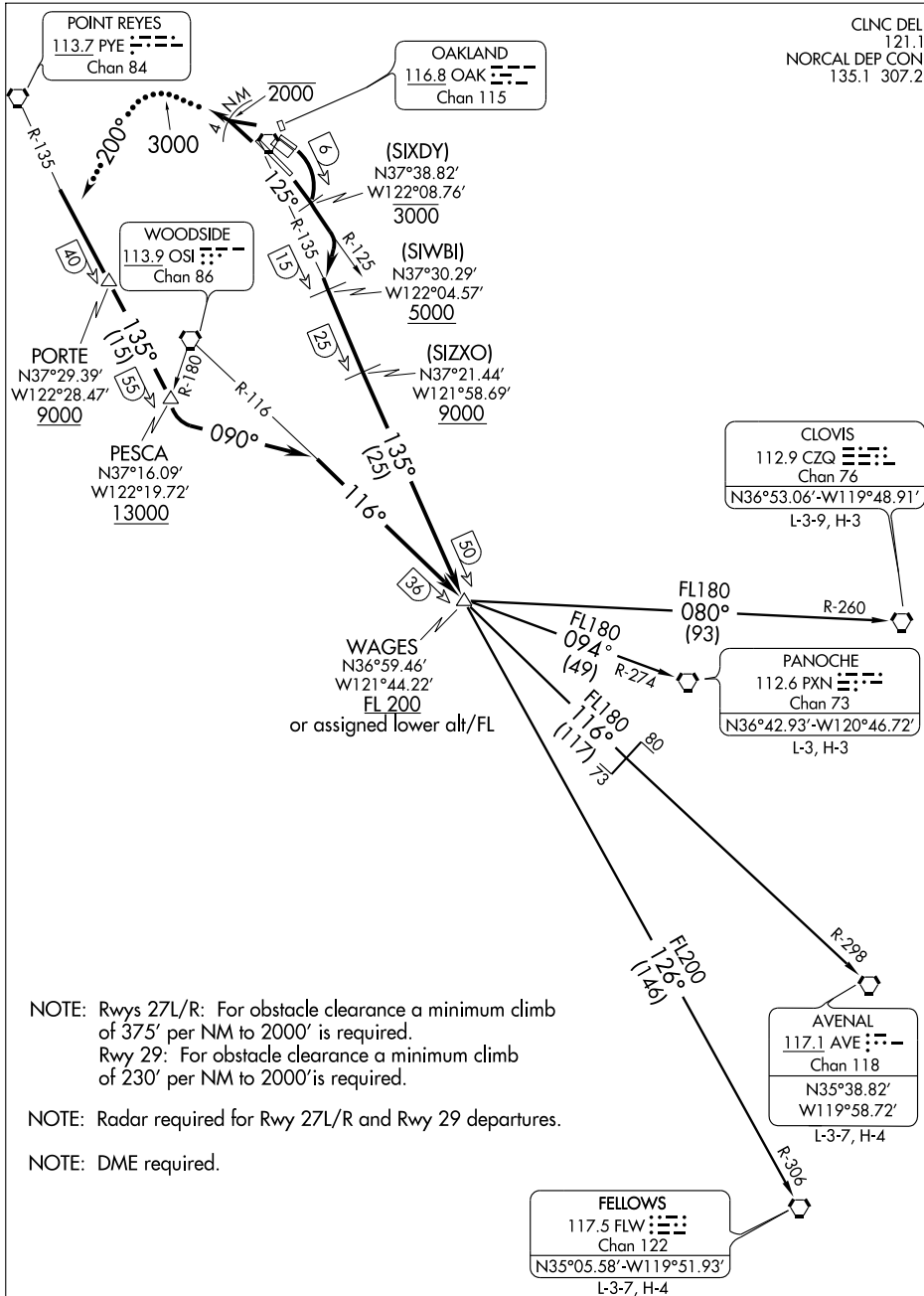
MENDOCINO TRANSITION (SLNT7.ENI): From over REBAS INT via SFO R-342 and ENI R-118 to ENI VORTAC.

RED BLUFF TRANSITION (SLNT7.RBL): From over REBAS INT via SFO R-342 and RBL R-168 to RBL VORTAC.

SACRAMENTO TRANSITION (SLNT7.SAC): From over REBAS INT via SAC R-216 to SAC VORTAC.

SKYLINE THREE DEPARTURE

OAKLAND / METROPOLITAN OAKLAND INTL (OAK)
SL-294 (FAA) OAKLAND, CALIFORNIA



(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R: Turn right to intercept and proceed via the OAK R-125, cross the OAK R-125/6 DME fix at or below 3000'; then turn right to intercept and proceed via the OAK R-135 to WAGES INT. Cross the OAK R-135/15 DME fix at or above 5000'. Cross the OAK R-135/25 DME fix at or above 9000'. Thence....

TAKE-OFF RUNWAY 11: Maintain runway heading to intercept and proceed via the OAK R-125, cross the OAK R-125/6 DME fix at or below 3000'; then turn right to intercept and proceed via the OAK R-135 to WAGES INT. Cross the OAK R-135/15 DME fix at or above 5000'. Cross the OAK R-135/25 DME fix at or above 9000'. Thence....

TAKE-OFF RUNWAYS 27L/R and 29: Maintain runway heading for vector to the PYE R-135, then via the PYE R-135 to PESCA INT. Cross a point 4 miles northwest of OAK VORTAC at or below 2000'. Cross PORTE DME FIX at or above 9000' and PESCA INT at or above 13000'. Then turn left heading 090° to intercept and proceed via the OSI R-116 to WAGES INT. Thence....

....via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure. Cross WAGES INT at or above FL200 or assigned lower altitude or flight level.

LOST COMMUNICATIONS:

Take-off runways 27L/R and 29: After reaching 3000', turn left heading 200°, intercept and proceed via the PYE R-135. Resume your own navigation.

AVENAL TRANSITION (SKYL3.AVE): From over WAGES INT via OSI R-116 and AVE R-298 to AVE VORTAC.

CLOVIS TRANSITION (SKYL3.CZQ): From over WAGES INT via CZQ R-260 to CZQ VORTAC.

FELLOWS TRANSITION (SKYL3.FLW): From over WAGES INT via FLW R-306 to FLW VORTAC.

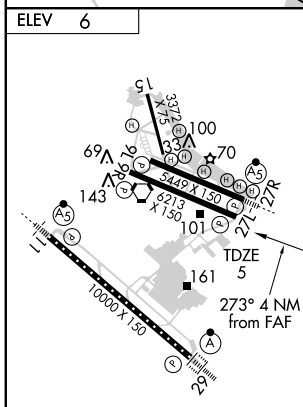
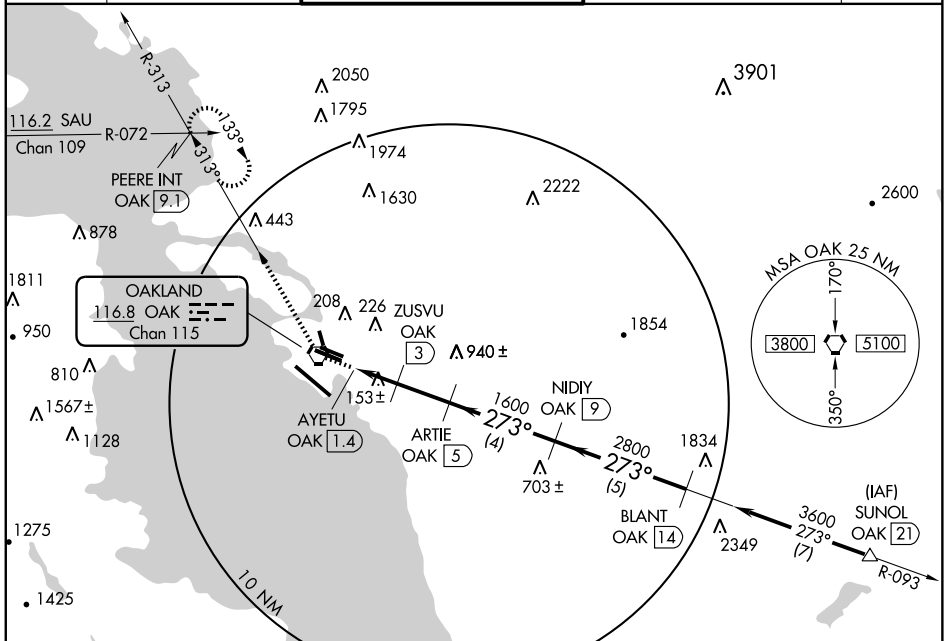
PANOCHÉ TRANSITION (SKYL3.PXN): From over WAGES INT via PXN R-274 to PXN VORTAC.

VORTAC OAK 116.8 Chan 115	APP CRS 273°	Rwy Idg TDZE Apt Elev	6213 5 6
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VOR/DME RWY 27L

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

				MISSED APPROACH: Climb to 3100 via OAK R-313 to PEERE Int/OAK 9.1 DME and hold.			
ATIS 133.775	NORCAL APP CON 125.35 310.8 354.1	OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9		GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75		CLNC DEL 121.1	



TDZ/CL Rwy 29
MIRL Rwy 15-33
REIL Rwy 9R
HIRL Rwys 11-29, 9L-27R, and 9R-27L

3100 ↑ OAK R-313 PEERE INT OAK [9.1]				VGSi and descent angles not coincident.				NIDIY OAK [9]				BLANT OAK [14]			
VORTAC AYETU OAK [1.4]				ZUSVU OAK [3]				ARTIE OAK [5]				3600 273° 2800 1600 800			
0.5 0.6 1 NM 2 NM 4 NM 5 NM				≤ 3.50° TCH 55				Procedure Turn NA				3600 273° 2800 1600 800			
CATEGORY				A				B				C			
S-27L				420/50 415 (500-1)				420/60 415 (500-1¼)							
CIRCLING				520-1 514 (600-1)				540-1 534 (600-1)				540-1½ 534 (600-1½)			
												560-2 554 (600-2)			

VORTAC OAK 116.8 Chan 115	APP CRS 108°	Rwy Idg TDZE Apt Elev 6213 5 6
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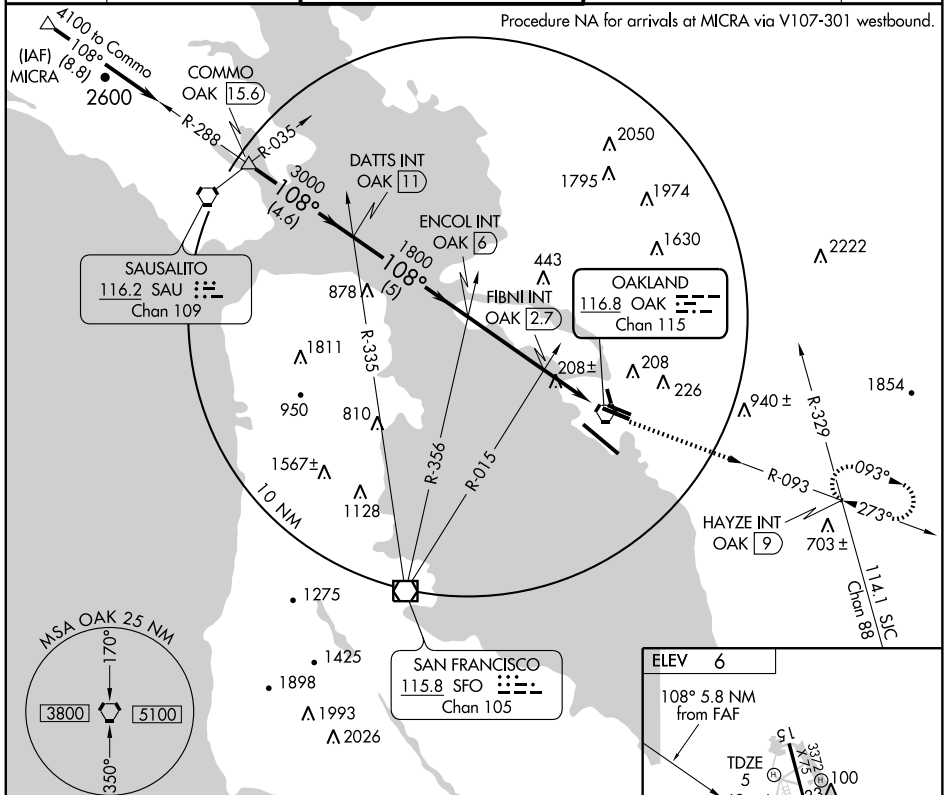
VOR RWY 9R

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

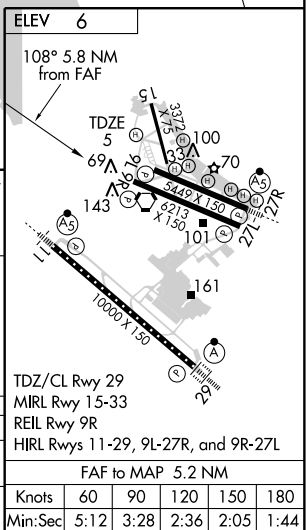
ATIS 133.775		NORCAL APP CON 125.35 310.8 354.1		OAKLAND TOWER (Rwys 9-27, 15-33) (Rwy 11-29) 118.3 291.65 127.2 256.9		GND CON (Rwys 9-27, 15-33) (Rwy 11-29) 121.9 121.75		CLNC DEL 121.1	
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MISSED APPROACH: Climb to 4800 via OAK R-093 to HAYZE Int/OAK 9 DME and hold.

Procedure NA for arrivals at MICRA via V107-301 westbound.

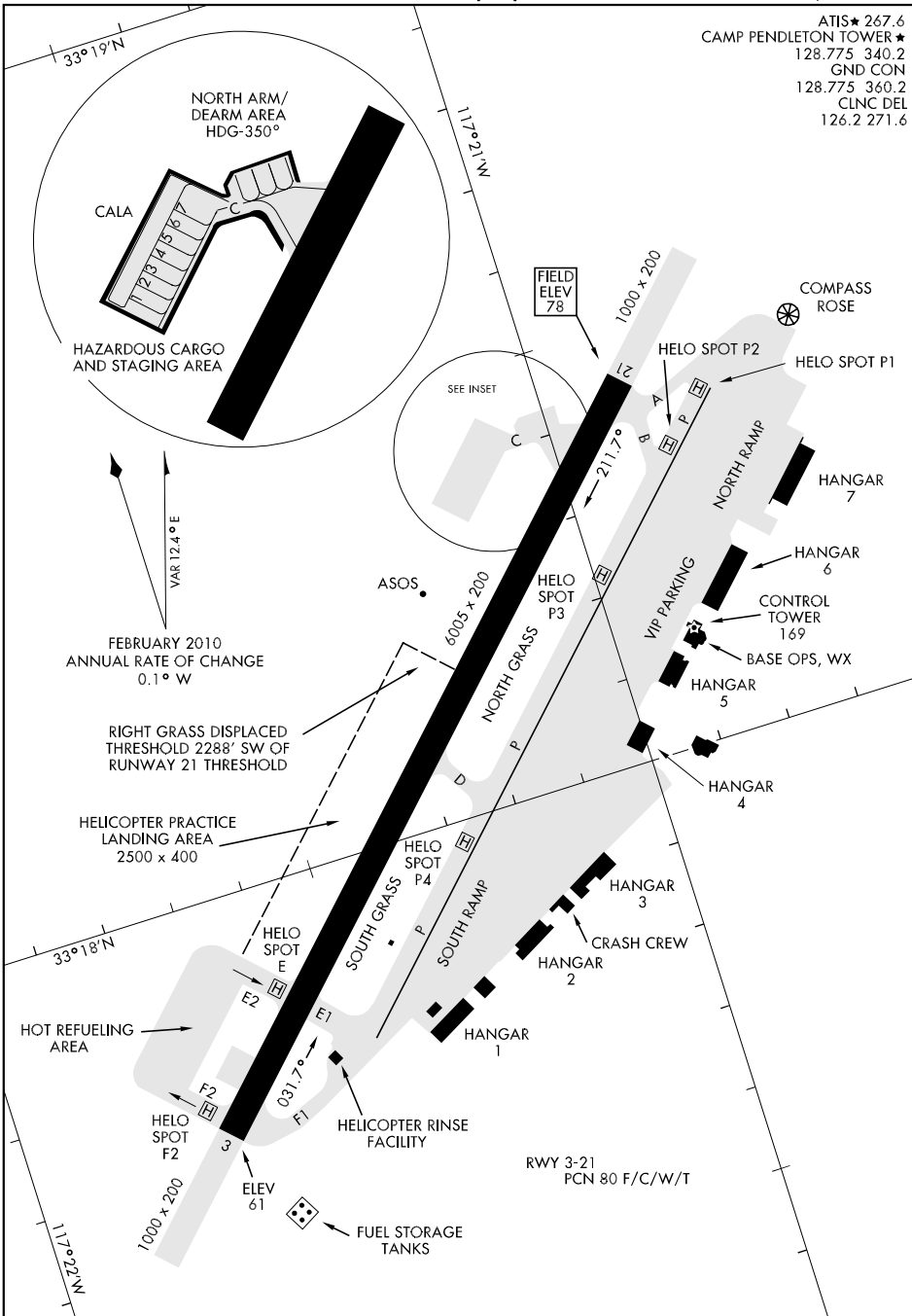


	COMMO OAK [15.6]	DATTI INT OAK [11]	ENCOL INT OAK [6]	FIBNI INT OAK [2.7]	4800 OAK R-093	HAYZE INT OAK [9]
Procedure Turn NA	4100	3000	1800	800	2.84 TCH 46	OAK [0.8]
CATEGORY	A	B	C	D		
S-9R	460-1	455 (500-1)	460-1¼ 455 (500-1¼)	460-1½ 455 (500-1½)		
CIRCLING	520-1 514 (600-1)	540-1 534 (600-1)	540-1½ 534 (600-1½)	560-2 554 (600-2)		



ATIS ★ 267.6
 CAMP PENDLETON TOWER ★
 128.775 340.2
 GND CON
 128.775 360.2
 CLNC DEL
 126.2 271.6

SW-3, 14 JAN 2010 to 11 FEB 2010



BEACH-FIVE DEPARTURE (BECH 5 • OCN)(PILOT NAV)

CAMP PENDLETON MSA (MOUNT FIELD) (RWY 21)
OCEANSIDE, CALIFORNIA

ATIS ★ 267.6
CLNC DEL
126.2 271.6
GND CON
128.775 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

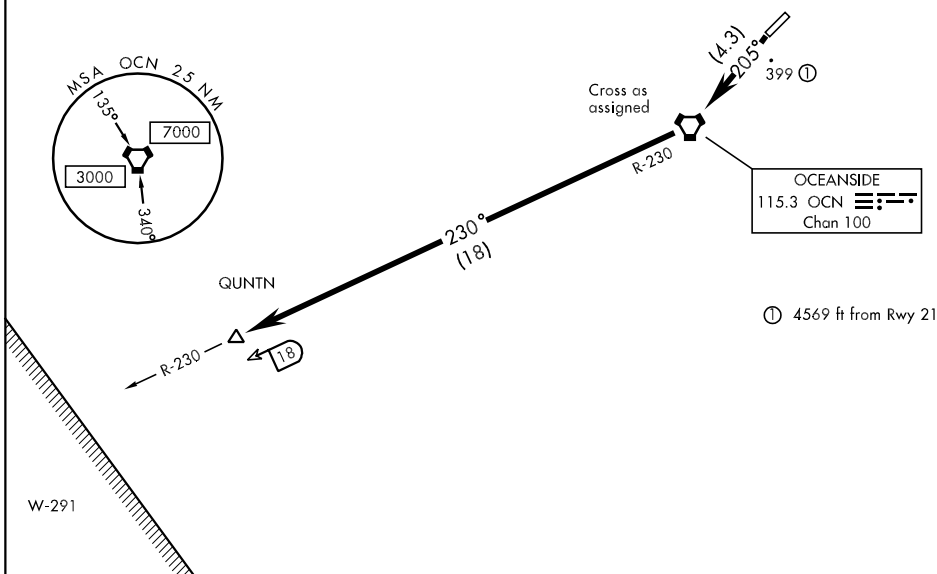
Rwy	Knots	60	120	180	240
21 ★	V/V(fpm)	430	860	1290	1720

* Minimum Climb Rate to 800

(800-2 ceiling and vis authorized
in lieu of Minimum Climb Rate)

MILITARY USE ONLY

SW-3, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 21: Climb direct to OCN. Cross OCN at assigned altitude.

QUINTON TRANSITION (BECH 5 • QUNTN): Fly OCN R-230 to 18 DME (QUNTN).

BULLDOG-SEVEN DEPARTURE (BLDG 7 • VISTA)

OCEANSIDE, CALIFORNIA

ATIS ★ 267.6
CLNC DEL
126.2 271.6
GND CON
128.775 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

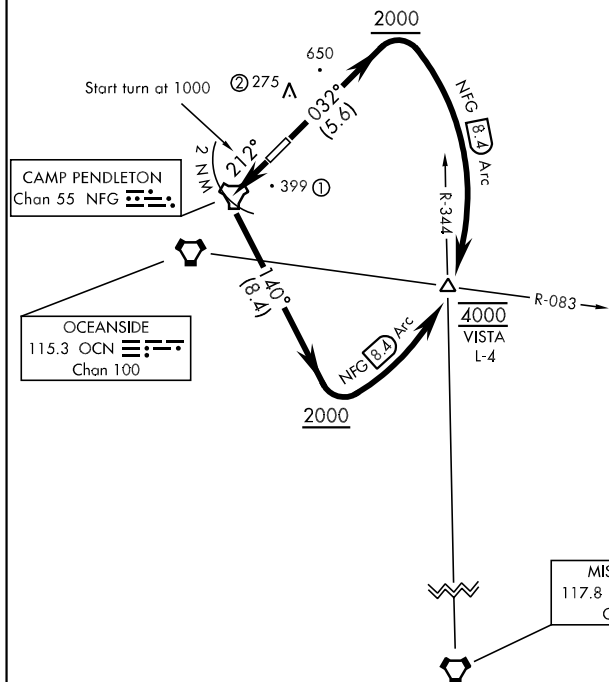
MILITARY USE ONLY

- ① 5470 ft from Rwy 21
- ② 4680 ft from Rwy 3

Rwy	Knots	60	120	180	240
*3 (a)	V/V(fpm)	320	640	960	1280
†3 (b)	V/V(fpm)	350	700	1050	1400
*21 (c)	V/V(fpm)	430	860	1290	1720
†21 (d)	V/V(fpm)	470	940	1410	1880
†21 (e)	V/V(fpm)	220	440	660	880

* Minimum † ATC Climb Rate

- (a) To 900 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (b) To 2000
- (c) To 800 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (d) To 1000
- (e) 1000 to 4000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb to 2000 via track 032°. Join the NFG TACAN 8.4 DME ARC at or above 2000 and arc E to VISTA int. Cross VISTA INT at 4000 or assigned altitude.

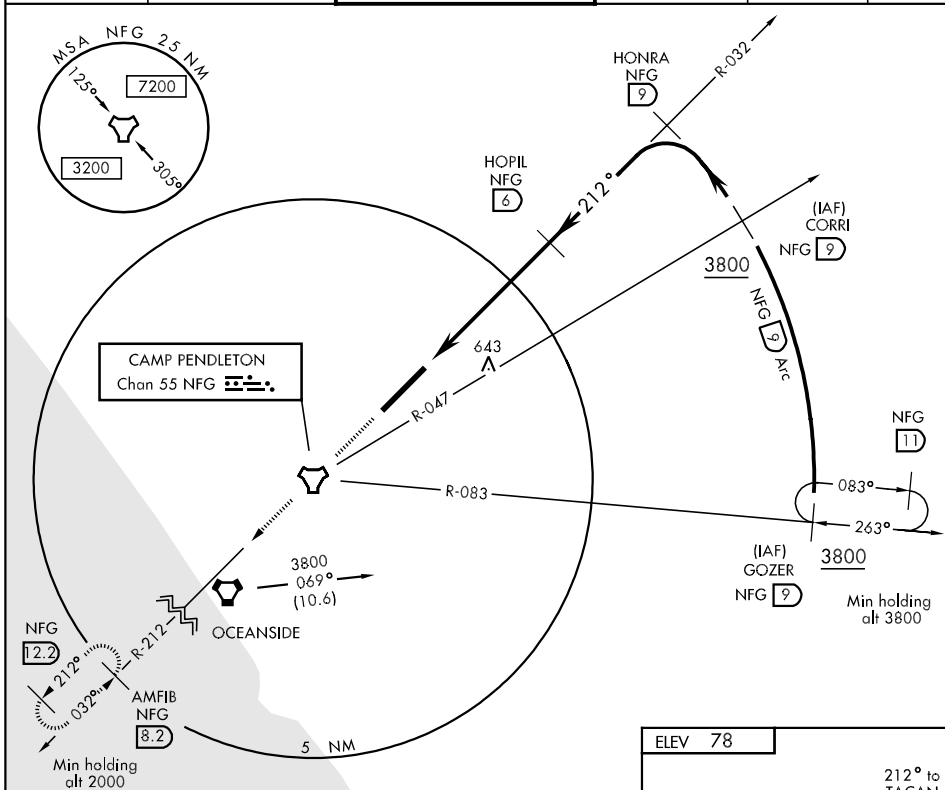
TAKE-OFF RWY 21: Climb to 1000 within 2 NM via track 212° then turn left heading 140°. Join the NFG TACAN 8.4 DME arc at or above 2000 and arc E to VISTA int. Cross VISTA INT at 4000 or assigned altitude.

TACAN NFG Chan 55	APCH CRS 212°	Rwy Idg TDZE Arprt Elev	6005 78 78
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AL-5985 [UN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

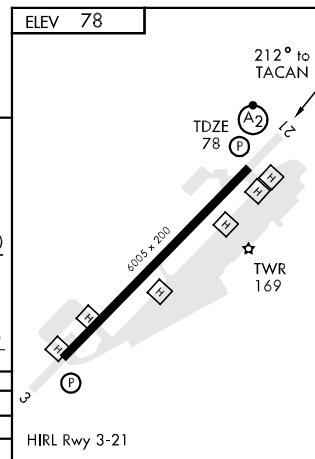
V	* When ALS inop, increase vis to 1 mile.	SALSF (A2)	MISSED APPROACH: Climb to 2000 via NFG TACAN R-032 and R-212 to AMFIB (NFG R-212/8.2 DME) and hold.
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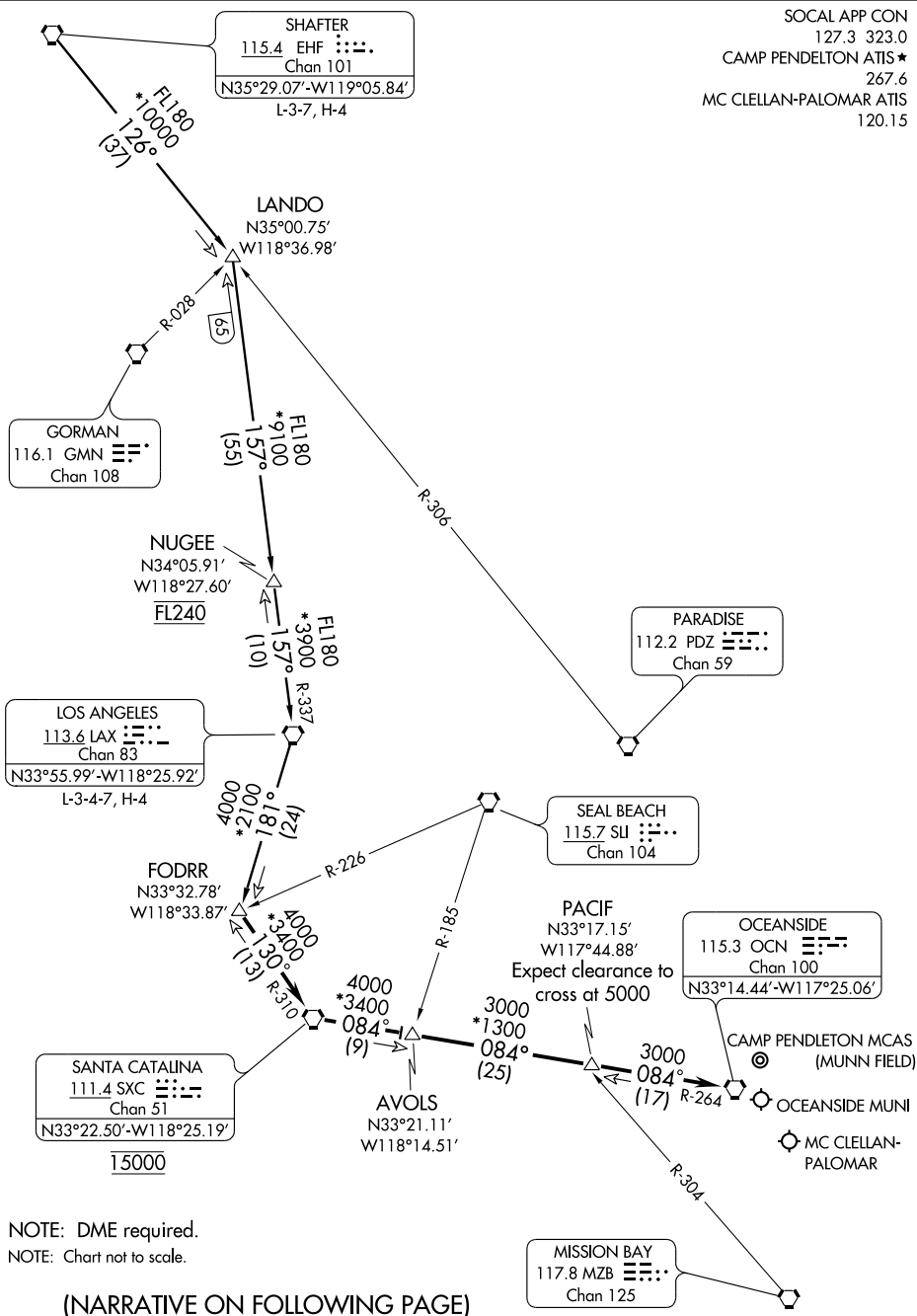
ATIS ★ 267.6	SOCAL APP CON 127.3 323.0	CAMP PENDLETON TOWER ★ 128.775 340.2	GND CON 128.775 360.2	CLNC DEL 126.2 271.6	ASR/PAR
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EMERG SAFE ALT 100 NM 13,600

2000 NFG R-032	AMFIB NFG 8.2	VDA and VGSI not coincident.			
TACAN	ZAKES 3.6	HOPIL R-032 6	HONRA R-032 9	CORRI R-047 9	GOZER R-083 9
		1800	2900	3800	3800
		2.4 NM	9 Arc	4.85° TCH 40	
CATEGORY	COPTER				
H-21*	900-¾	822	(900-¾)		
CIRCLING	NOT AUTHORIZED				





ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.FODRR1): From over LAX VORTAC via LAX R-181 to FODRR INT/DME FIX. Thence....

SHAFTER TRANSITION (EHF.FODRR1): From over EHF VORTAC via EHF R-126 and LAX R-337 to LAX VORTAC, then via LAX R-181 to FODRR INT/DME FIX. Thence....

....From over FODRR INT/DME FIX via SXC R-310 to SXC VORTAC, cross SXC VORTAC at 15000, then via SXC R-084 to AVOLS INT/DME FIX, then via SXC R-084 and OCN R-264 to PACIF INT/DME FIX, then via OCN R-264 to OCN VORTAC. Thence....

....LANDING CARLSBAD/MC CLELLAN-PALOMAR: From over OCN VORTAC expect the ILS or LOC RWY 24 approach.

....LANDING CAMP PENDLETON MCAS (MUNN FIELD): From over OCN VORTAC expect the VOR/DME or TACAN RWY 21 approach.

....LANDING OCEANSIDE MUNI: From over OCN VORTAC expect the VOR-A approach.

ATIS ★ 267.6
CLNC DEL
126.2 271.6
GND CON
128.775 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

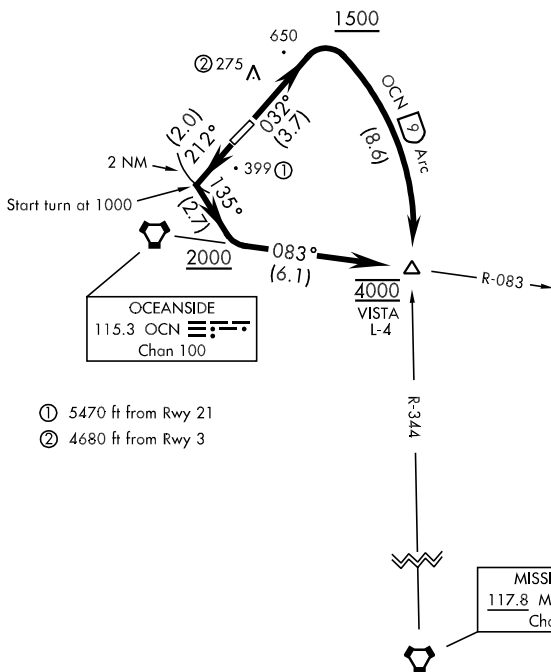
SL-5985 [USN]

MILITARY USE ONLY

Rwy	Knots	60	120	180	240
* 3 (a) V/V(fpm)		320	640	960	1280
† 3 (b) V/V(fpm)		390	780	1170	1560
† 3 (c) V/V(fpm)		290	580	870	1160
* 21 (d) V/V(fpm)		430	860	1290	1720
† 21 (e) V/V(fpm)		470	940	1410	1880
† 21 (f) V/V(fpm)		370	740	1110	1480

* Minimum climb rate † ATC Climb Rate

- (a) To 900 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (b) To 1500
- (c) 1500 to 4000
- (d) To 800 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (e) To 1000
- (f) 1000 to 4000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb to 1500 via track 032°. Join the OCN VORTAC 9 DME arc at or above 1500 and arc E to VISTA int. Cross VISTA at 4000 or assigned altitude.

TAKE-OFF RWY 21: Climb to 1000 within 2 NM via track 212° turn left heading 135°, to join the OCN VORTAC R-083 at or above 2000 to VISTA int. Cross VISTA at 4000 or assigned altitude.

LIMA SIX DEPARTURE (LIMA 6)(VECTOR)

CAMP PENDLETON MSA (MOUNTAIN FIELD) (RWY 3)
OCEANSIDE, CALIFORNIA

ATIS ★ 267.6
CLNC DEL
126.2 271.6
GND CON
128.775 360.2
CAMP PENDLETON TOWER ★
128.775 340.2
SOCAL DEP CON
127.3 323.0

SL-5985 [USN]

MILITARY USE ONLY RADAR REQUIRED

Rwy	Knots	60	120	180	240
* 3 (a) V/V(fpm)		320	640	960	1280
* 21 (b) V/V(fpm)		430	860	1290	1720
† 21 (c) V/V(fpm)		630	1260	1890	2520
** 3 (d) V/V(fpm)		580	1160	1740	2320
** 21 (e) V/V(fpm)		630	1260	1890	2520

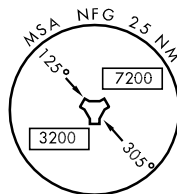
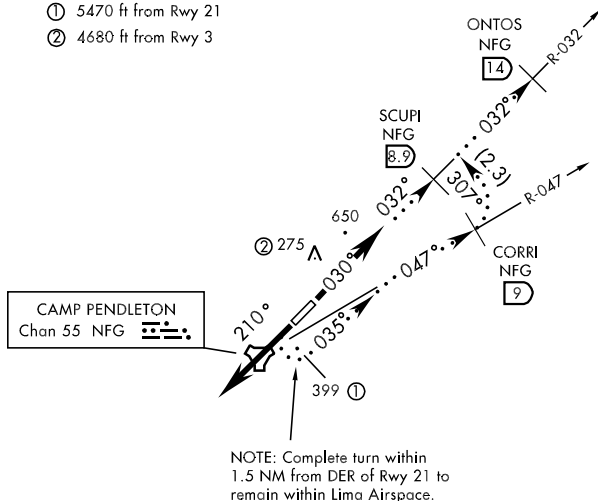
* Minimum † ATC Climb Rate

** Lost Communications

- (a) To 900 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (b) To 800 (800-2 ceiling and vis authorized in lieu of Minimum Climb Rate)
- (c) To 1000
- (d) To 3600
- (e) To 1000

Procedure restricted to 150 KIAS max.

- ① 5470 ft from Rwy 21
- ② 4680 ft from Rwy 3



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3 (LIMA 6 • ONTOS): Climb heading 030° for radar vectors.

TAKE-OFF RWY 21 (LIMA 6 • CORRI): Climb heading 210° for radar vectors.

NOTE: Vectors not auth NW of Rwy 3-21. No turns auth prior to reaching 1000 ft.

Lost Communications:

Runway 3: Climb to 3600 via heading 030°. Intercept NFG R-032 to SCUPI (NFG R-032/8.9 DME).

Runway 21: Climb to 1000 via heading 210°. Then climbing left turn to 3500 via heading 035° prior to NFG 0.2 DME to intercept NFG R-047 to CORRI (NFG R-047/9 DME). †

† F/W: At CORRI, climbing left turn to 5000 heading 307° to intercept NFG R-032 to ONTOS (NFG R-032/14 DME). Proceed with TACAN Z RWY 21.

† Copter: At CORRI, proceed with COPTER TACAN RWY 21.

APCH CRS **211°**
 Rwy Idg **6005**
 TDZE **78**
 Arpt Elev **78**

AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

▼ * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 2 miles, CAT D to 2¼ miles.
 ** Circling RWY 3 NA at night.

SALSF



MISSED APPROACH: Climb to 2000 direct AMFIB and hold.

ATIS ★
267.6

SOCAL APP CON
127.3 323.0

CAMP PENDLETON TOWER ★
128.775 340.2

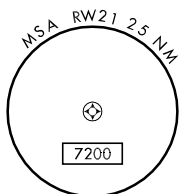
GND CON
128.775 360.2

CLNC DEL
126.2 271.6

ASR/PAR

WESIN

4 NM



JEMIS

(FAF)
JEMOD

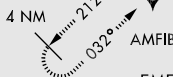
JEPOG

RW21

OCEANSIDE

5000
 337°
 (17.5)

△ ROBNN

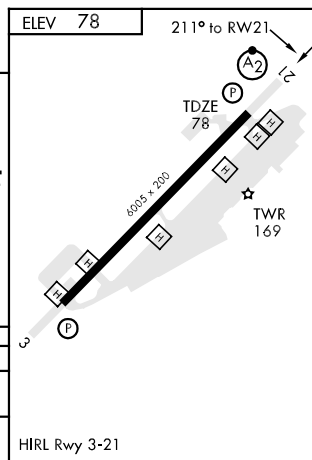
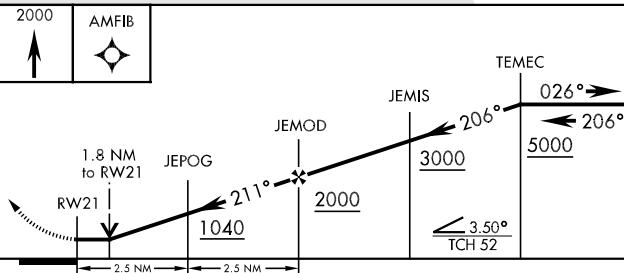


EMERG SAFE ALT 100 NM 13,600



ELEV 78

211° to RW21



CATEGORY	A	B	C	D
LNAV MDA *	800-¾ 722 (800-¾)	722 (800-¾)	800-1¼ 722 (800-1¼)	800-2 722 (800-2)
CIRCLING **	960-1¼ 882 (900-1¼)	1080-1½ 1002 (1100-1½)	1180-3 1102 (1200-3)	1200-3 1122 (1200-3)

HIRL Rwy 3-21

TACAN NFG Chan 55	APCH CRS 032°	Rwy ldg TDZE 67 Arpt Elev 78
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AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

Procedure not authorized at night when VGSI inop			* MISSED APPROACH: Climb to 3700 via NFG TACAN R-032 to SCUPI (NFG R-032/8.9 DME) and hold.		
ATIS ★ 267.6	SOCAL APP CON 127.3 323.0	CAMP PENDLETON TOWER ★ 128.775 340.2	GND CON 128.775 360.2	CLNC DEL 126.2 271.6	ASR/PAR

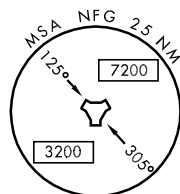
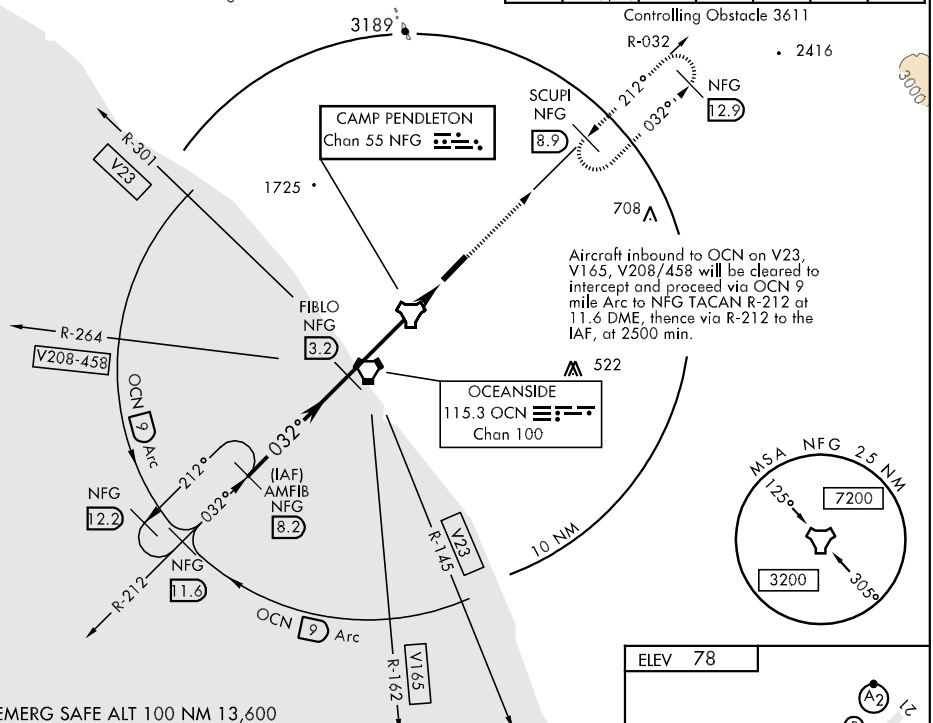
CAUTION: High terrain on final approach. Do not descend below MDA prior to MAP.

CAUTION: CAT CD intmd seg len is 5.0 NM.

* CAUTION: Missed Approach
Minimum Climb Rate to 3700

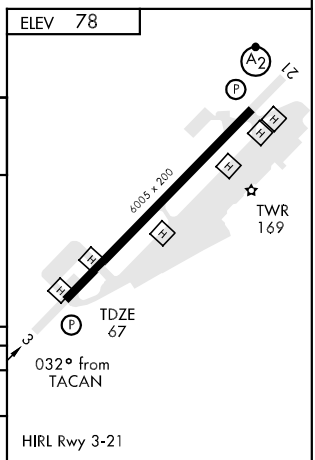
Rwy	Knots	60	120	180	240	300
3	V/V(fpm)	360	720	1080	1440	1800

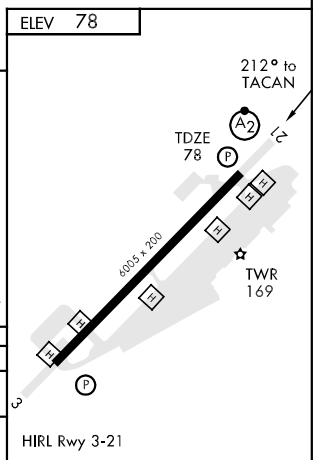
Controlling Obstacle 3611



EMERG SAFE ALT 100 NM 13,600

AMFIB NFG R-212 8.2 2500 2.65° TCH 50		FIBLO NFG 3.2 1500 032°		TACAN ZASON NFG 1.3 032° 3.2 NM 1.3 .5		VGSI and VDA not coincident. 3700 NFG R-032 SCUPI NFG 8.9
CATEGORY	A	B	C	D		
S-3	980-1¼ 913 (1000-1¼)		980-2¾ 913 (1000-2¾)	980-3 913 (1000-3)		
CIRCLING	980-1¼ 902 (1000-1¼)	1080-1½ 1002 (1100-1½)	1180-3 1102 (1200-3)	1200-3 1122 (1200-3)		



SW-3, 14 JAN 2010 to 11 FEB 2010

CATEGORY	A	B	C	D
S-21 *	900-¾ 822 (900-¾)	900-1 822 (900-1)	900-2¼ 822 (900-2¼)	900-2½ 822 (900-2½)
CIRCLING **	960-1¼ 882 (900-1¼)	1080-1½ 1002 (1100-1½)	1180-3 1102 (1200-3)	1200-3 1122 (1200-3)

VORTAC OCN
115.3
Chan **100**

APCH CRS
206°

Rwy Idg
TDZE
Arpt Elev
6005
78
78

AL-5985 [USN] CAMP PENDLETON MCAS (MUNN FIELD) (KNFG)

★ When ALS inop, increase vis CAT AB to 1¼ mile, CAT C to 2¾ miles, CAT D to 3 miles.
** Circling Rwy 3 not authorized at night.

SALSF
A2

MISSED APPROACH: Climb to 2000 via OCN VORTAC R-026 and R-213 to AMFIB (OCN R-213/5.7 DME) and hold.

ATIS ★ **267.6**

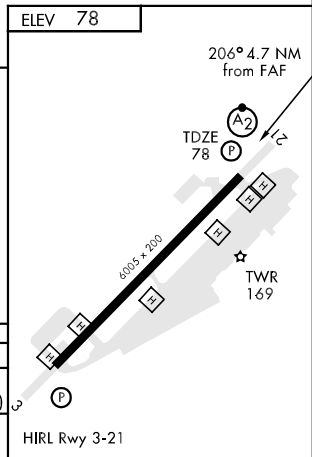
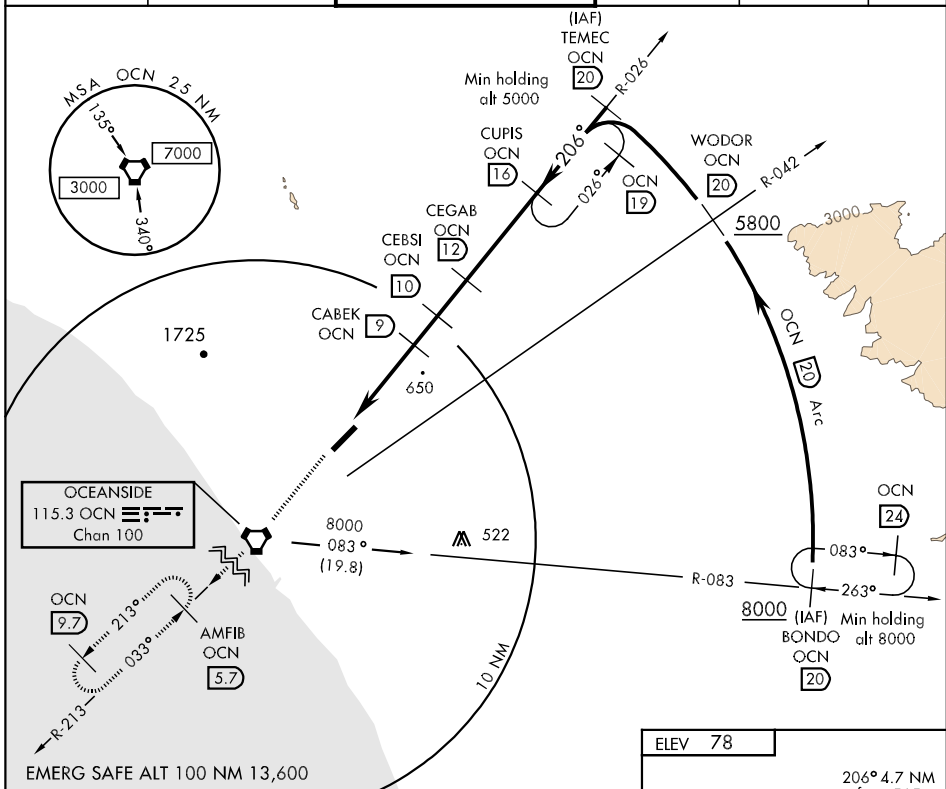
SOCAL APP CON **127.3 323.0**

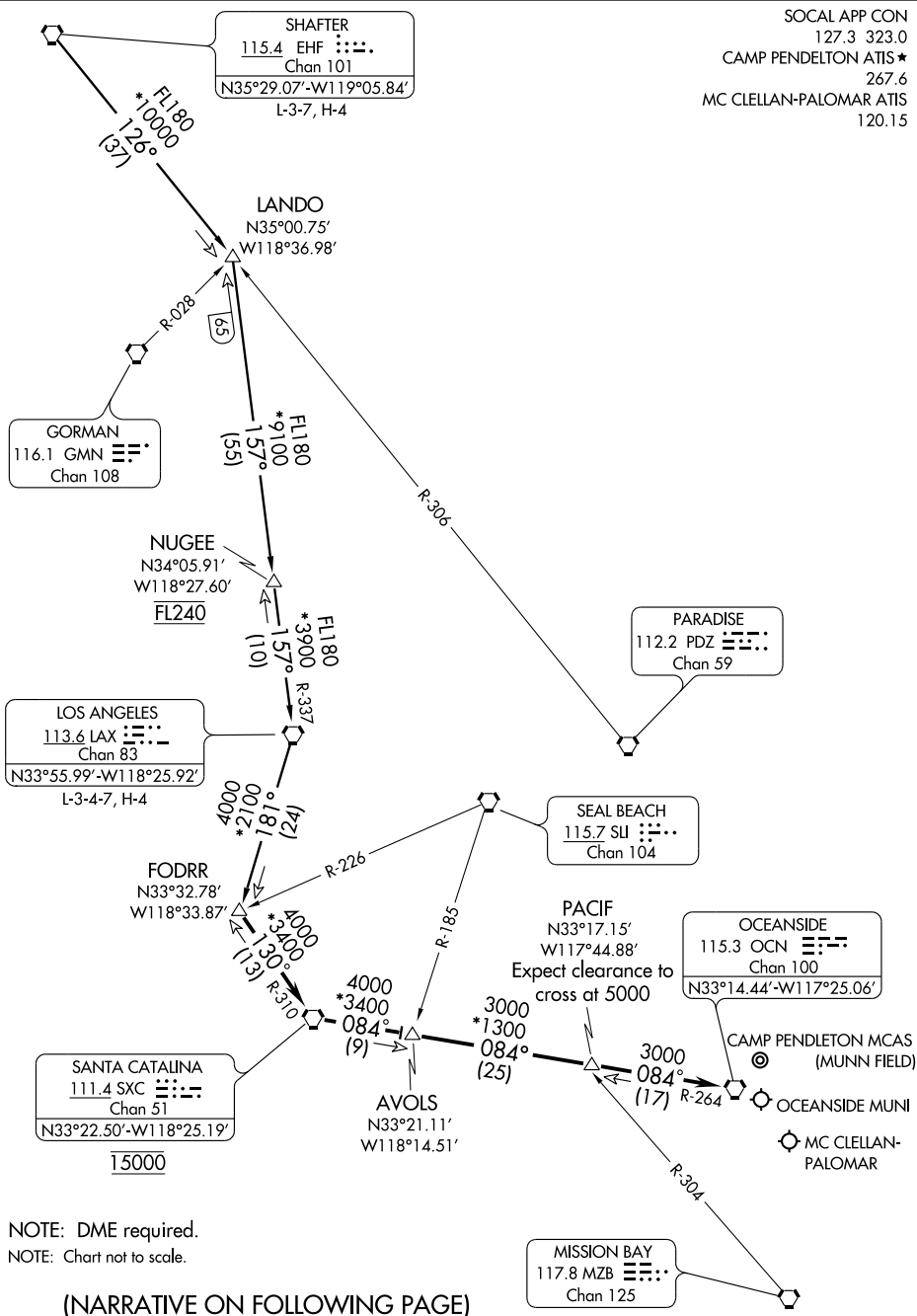
CAMP PENDLETON TOWER ★ **128.775 340.2**

GND CON **128.775 360.2**

CLNC DEL **126.2 271.6**

ASR/PAR





ARRIVAL ROUTE DESCRIPTION

LOS ANGELES TRANSITION (LAX.FODRR1): From over LAX VORTAC via LAX R-181 to FODRR INT/DME FIX. Thence....

SHAFTER TRANSITION (EHF.FODRR1): From over EHF VORTAC via EHF R-126 and LAX R-337 to LAX VORTAC, then via LAX R-181 to FODRR INT/DME FIX. Thence....

....From over FODRR INT/DME FIX via SXC R-310 to SXC VORTAC, cross SXC VORTAC at 15000, then via SXC R-084 to AVOLS INT/DME FIX, then via SXC R-084 and OCN R-264 to PACIF INT/DME FIX, then via OCN R-264 to OCN VORTAC. Thence....

....LANDING CARLSBAD/MC CLELLAN-PALOMAR: From over OCN VORTAC expect the ILS or LOC RWY 24 approach.

....LANDING CAMP PENDLETON MCAS (MUNN FIELD): From over OCN VORTAC expect the VOR/DME or TACAN RWY 21 approach.

....LANDING OCEANSIDE MUNI: From over OCN VORTAC expect the VOR-A approach.

APP CRS	Rwy Idg	2712
062°	TDZE	28
	Apt Elev	28

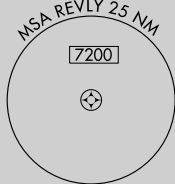
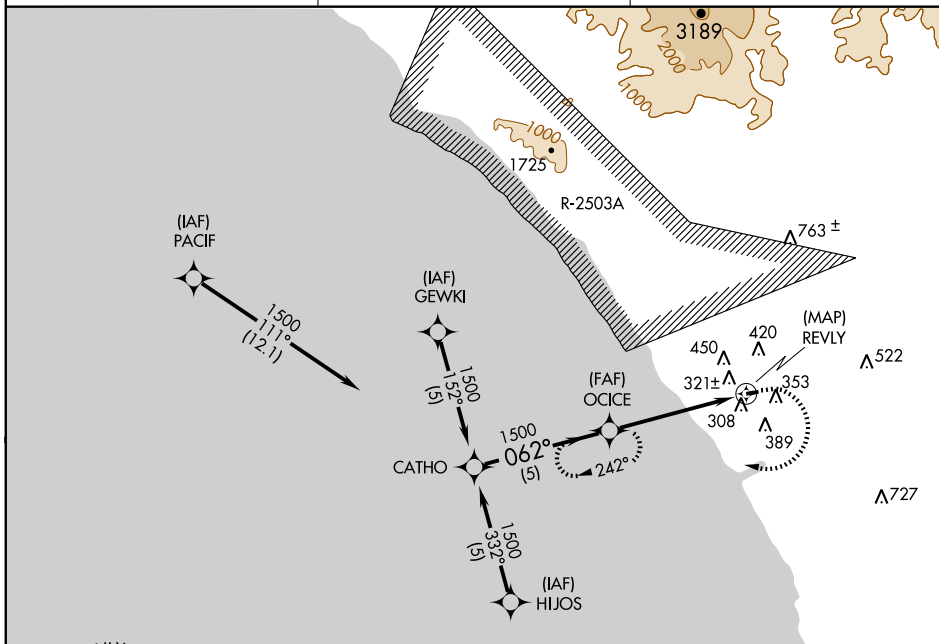
NA

MISSED APPROACH: Climbing right turn to 2000 direct OCICE WP and hold.

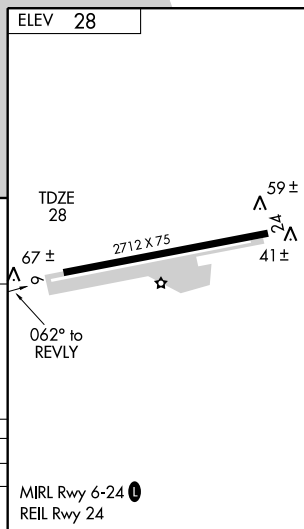
ASOS
127.8

SOCAL APP CON
127.3 323.0

UNICOM
123.0 (CTAF) 0



CATHO		OCICE		2000	OCICE
1500		062°		1500	REVLY
5 NM		5.1 NM			
CATEGORY	A	B	C	D	
S-6	720-1	692 (700-1)	NA	NA	
CIRCLING	880-1	880-1½	NA		
	852 (900-1)	852 (900-1½)			



MIRL Rwy 6-24 0
REIL Rwy 24

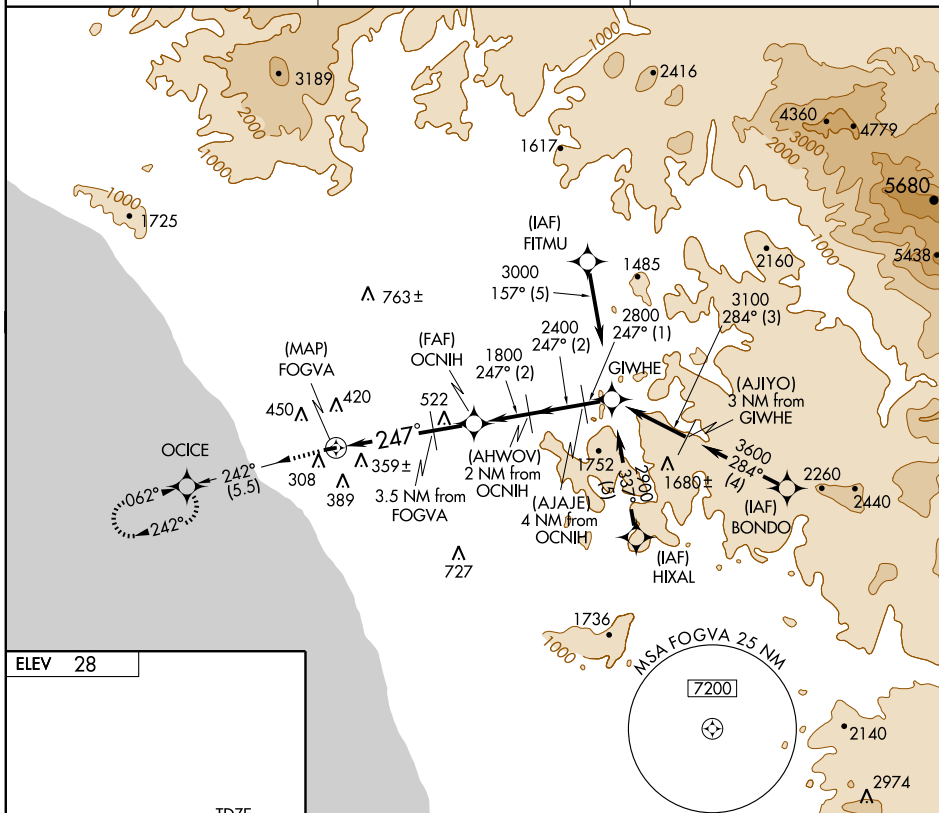
APP CRS	Rwy Idg	2712
247°	TDZE	28
	Apt Elev	28

MISSED APPROACH: Climb to 2000 via 242° course to OCICE WP and hold.

ASOS
127.8

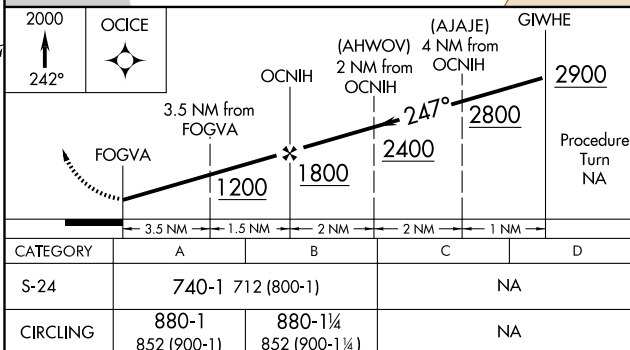
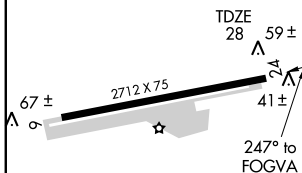
SOCAL APP CON
127.3 323.0

UNICOM
123.0 (CTAF) **L**



SW-3. 14 JAN 2010 to 11 FEB 2010

ELEV	28
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MIRL Rwy 6-24 **L**
REIL Rwy 24

VORTAC OCN 115.3 Chan 100	APP CRS 096°	Rwy Idg N/A TDZE N/A Apt Elev 28
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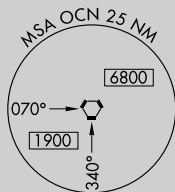
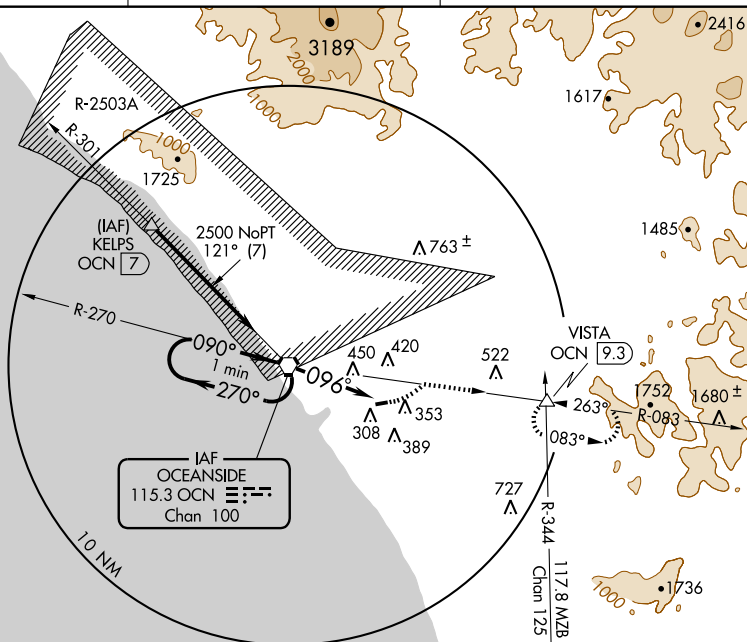
VOR-A
OCEANSIDE MUNI (OKB)



MISSED APPROACH: Climbing left turn to 4000 via heading 030° and OCN R-083 to VISTA Int/OCN 9.3 DME and hold.

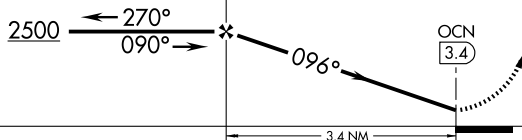
ASOS
127.8

SOCAL APP CON
127.3 323.0

UN|COM
123.0 (CTAF) **L**

One Minute Holding Pattern

VORTAC



ELEV 28

096° 3.4 NM
from FAF



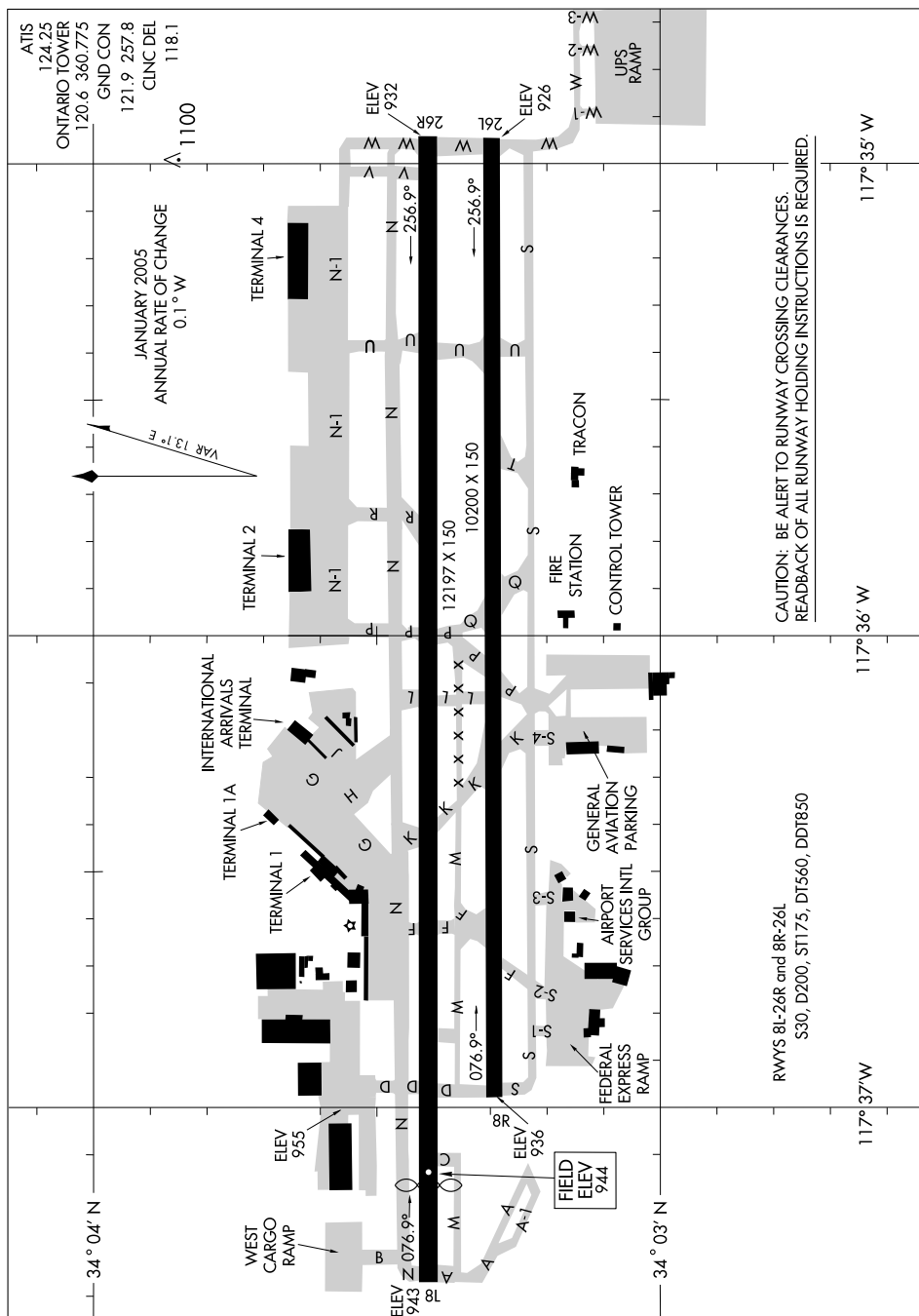
MIRL Rwy 6-24 **L**
REIL Rwy 24

CATEGORY	A	B	C	D	FAF to MAP 3.4 NM					
CIRCLING	1140-1¼	1140-1½	NA		Knots	60	90	120	150	180
	1112 (1200-1¼)	1112 (1200-1½)			Min:Sec	3:24	2:16	1:42	1:21	1:08

AIRPORT DIAGRAM

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

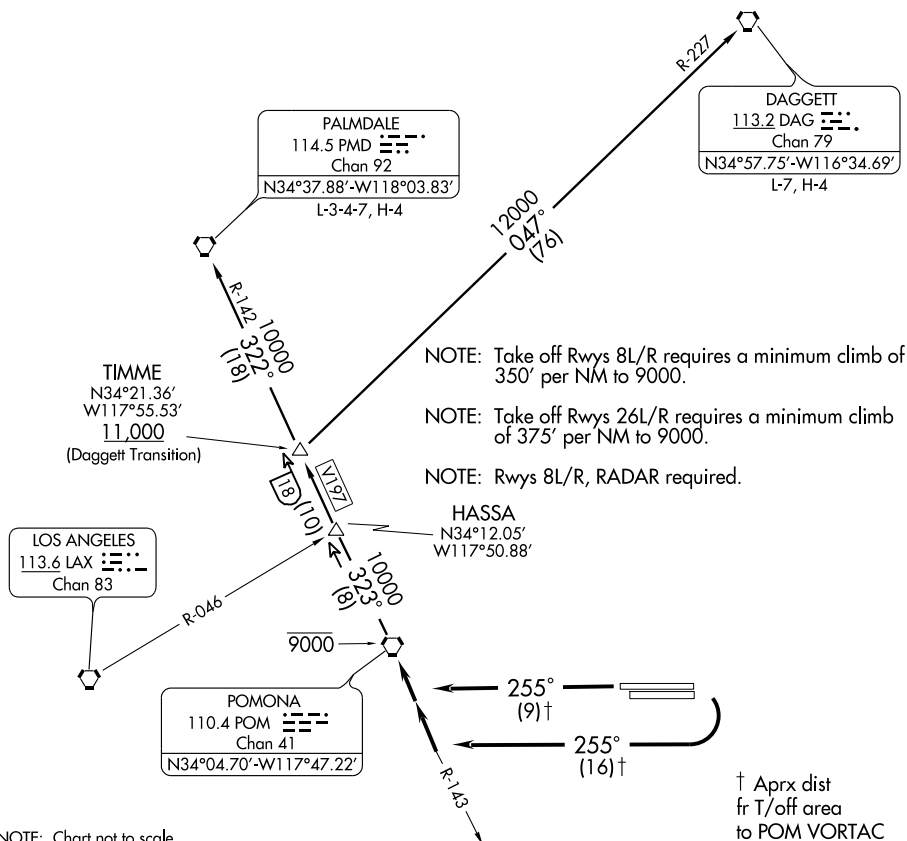


HASSA FOUR DEPARTURE

SL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

ATIS 124.25
CLNC DEL 118.1
SOCAL DEP CON
125.5 349.0



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8L/R: Turn right heading 255° to intercept and proceed via POM R-143 to POM VORTAC. Thence....

TAKE-OFF RUNWAYS 26L/R: Fly heading 255° to intercept and proceed via POM R-143 to POM VORTAC. Thence....

....via (transition) or (assigned route). Cross POM VORTAC at or below 9000'.

Expect filed altitude 10 minutes after departure.

DAGGETT TRANSITION (HASSA4.DAG): From over POM VORTAC via POM R-323 and DAG R-227 to DAG VORTAC.

PALMDALE TRANSITION (HASSA4.PMD): From over PMD VORTAC via POM R-323 and PMD R-142 to PMD VORTAC.

LOC I-AOD 109.7	APP CRS 076°	Rwy Idg 8L 11200 TDZE 944 Apt Elev 944	Rwy Idg 8R 10200 TDZE 936 Apt Elev 944
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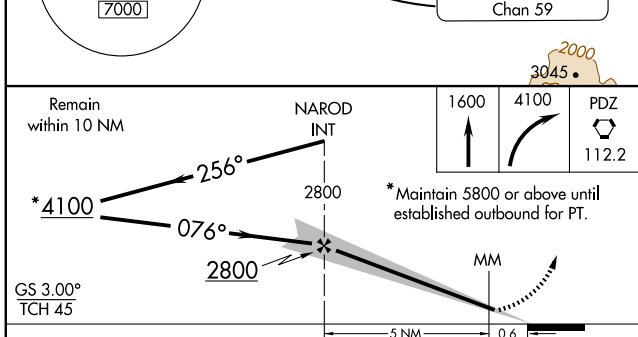
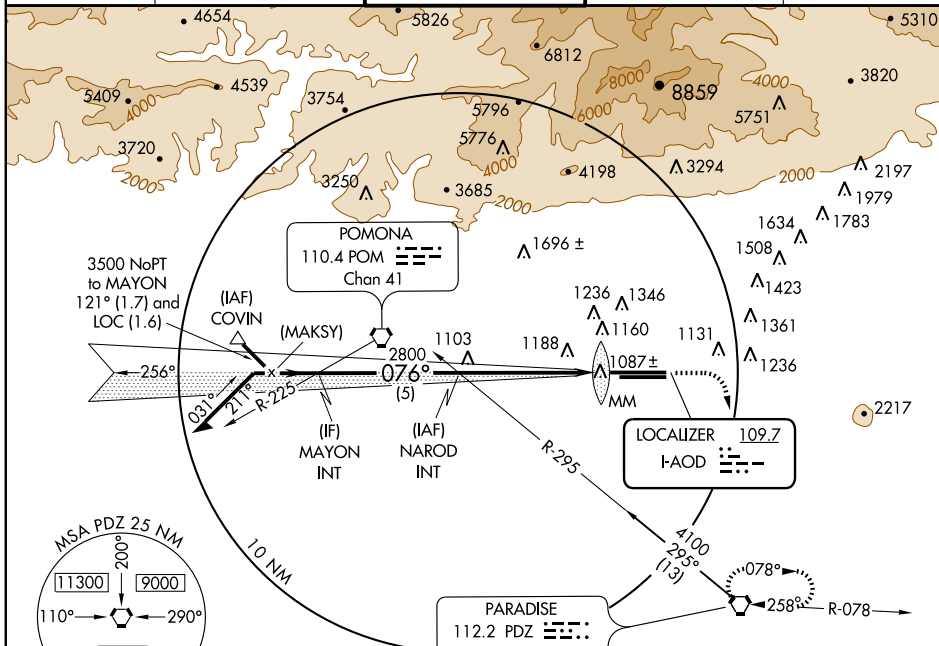
ILS or LOC RWY 8L
ONTARIO INTL (ONT)

T Circling NA north of Rwy 8L-26R.
RVR 1800 authorized with the use of FD or
AP or HUD to DA.

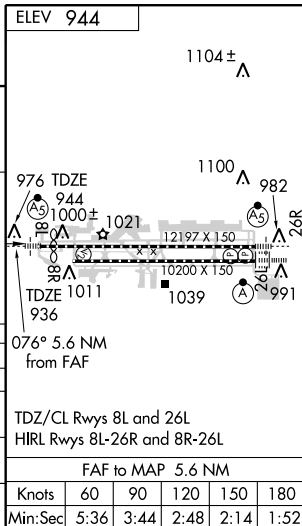
MALSR
Rwy 8L
 

MISSED APPROACH: Climb to 1600 then climbing right turn to 4100 direct PDZ VORTAC and hold.

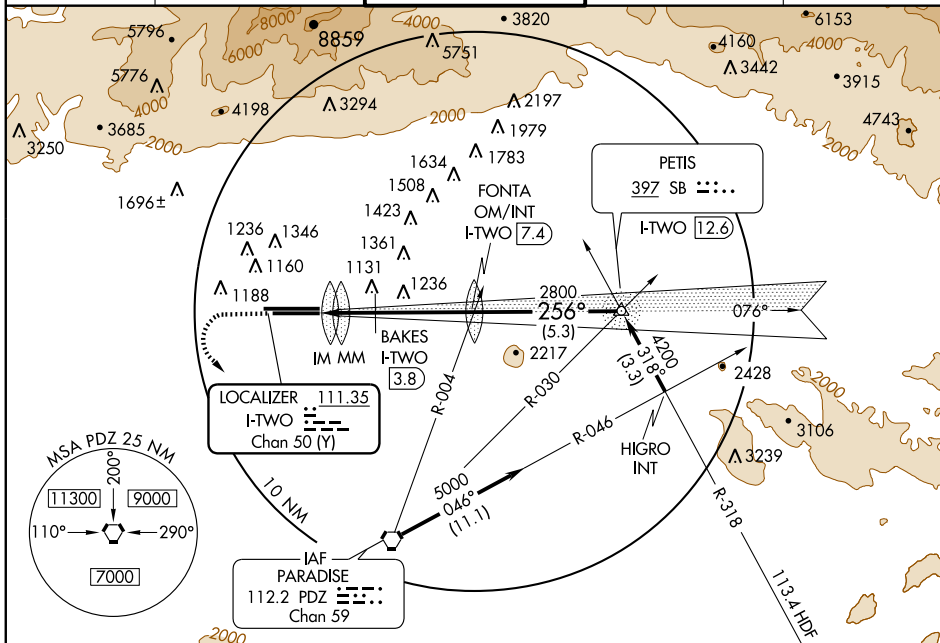
ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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CATEGORY	A	B	C	D
S-ILS 8L	# 1144/24 200 (200-½)			
S-LOC 8L	1340/24 396 (400-½)			1340/40 396 (400-¾)
SIDESTEP RWY 8R	1340-1 404 (400-1)		1340-1½ 404 (400-1½)	1340-2 404 (400-2)
CIRCLING	1380-1 436 (500-1)	1400-1 456 (500-1)	1400-1½ 456 (500-1½)	1500-2 556 (600-2)



ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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ELEV 944

TDZ/CL Rwys 8L and 26L
HIRL Rwys 8L-26R and 8R-26L

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

1700 ↑	4000 ↶	PDZ 112.2 ⬡	FONTA OM/INT I-TWO 7.4	PETIS NDB/INT I-TWO 12.6	Procedure Turn NA
CATEGORY		A		D	
S-ILS 26L		1126/18		200 (200-½)	
S-LOC 26L		1540/24	614 (600-½)	1540/60 614 (600-¼)	1540-1½ 614 (600-½)
SIDESTEP RWY 26R		1540/50	608 (600-1)	1540/60 608 (600-¼)	1540-1½ 608 (600-½)
CIRCLING		1540-1	596 (600-1)	1540-1¾ 596 (600-¾)	1540-2 596 (600-2)
BAKES DME MINIMUMS					
S-LOC 26L		1340/24	414 (400-½)	1340/40	414 (400-¾)
CIRCLING		1380-1 436 (500-1)	1400-1 456 (500-1)	1400-1½ 456 (500-½)	1500-2 556 (600-2)

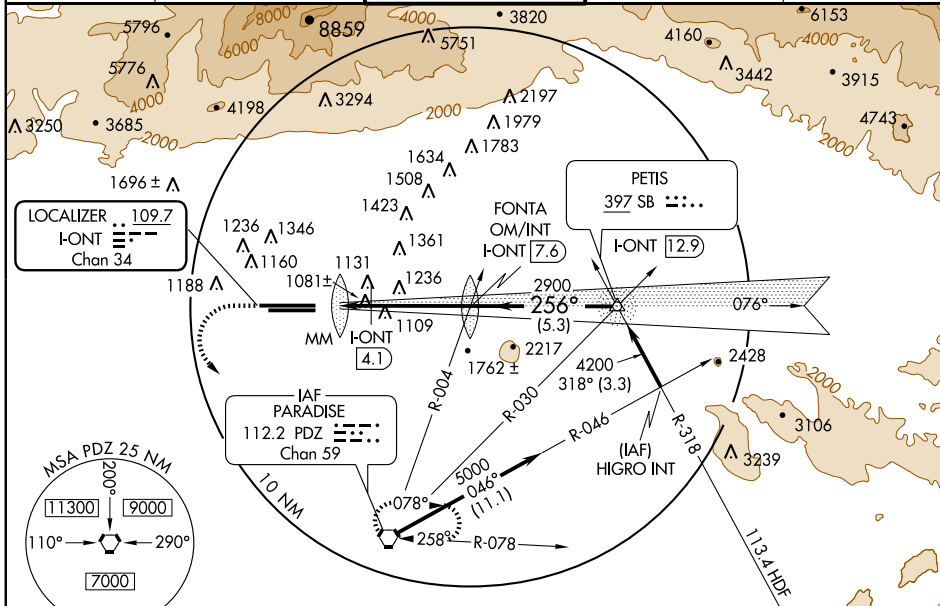
LOC/DME I-ONT 109.7 Chan 34	APP CRS 256°	Rwy Idg 26R 12197 TDZE 932 Apt Elev 944	Rwy Idg 26L 10200 TDZE 926 Apt Elev 944
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ILS or LOC RWY 26R

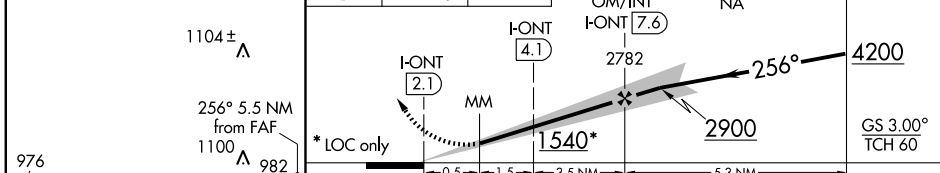
ONTARIO INTL (ONT)

⚠ Circling NA north of Rwy 8L-26R Inoperative table does not apply to sidestep Rwy 26L Cats A and B.	ALSF-2 Rwy 26L TDZE A	MALSR Rwy 26R A	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 direct PDZ VORTAC and hold.
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ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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ELEV 944	1700	4000	PDZ 112.2	PETIS NDB/INT I-ONT 12.9
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CATEGORY	A	B	C	D
S-ILS 26R	1132/24 200 (200-½)			
S-LOC 26R	1540/24 608 (600-½)	1540/60 608 (600-¼)	1540-1½ 608 (600-½)	
SIDESTEP RWY 26L	1540/50 614 (600-1)	1540/60 614 (600-¼)	1540-1½ 614 (600-½)	
CIRCLING	1540-1 596 (600-1)	1540-1¾ 596 (600-¼)	1540-2 596 (600-2)	
DME MINIMUMS				
S-LOC 26R	1340/24 408 (400-½)	1340/40 408 (400-¾)		
CIRCLING	1380-1 436 (500-1)	1400-1 456 (500-1)	1400-1¾ 456 (500-¼)	1500-2 556 (600-2)

TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

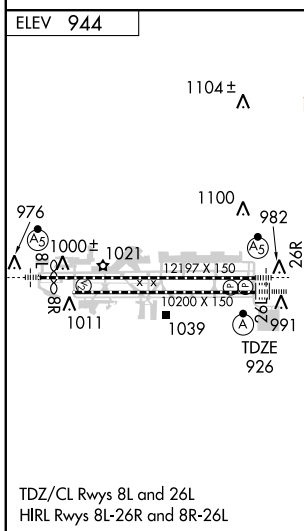
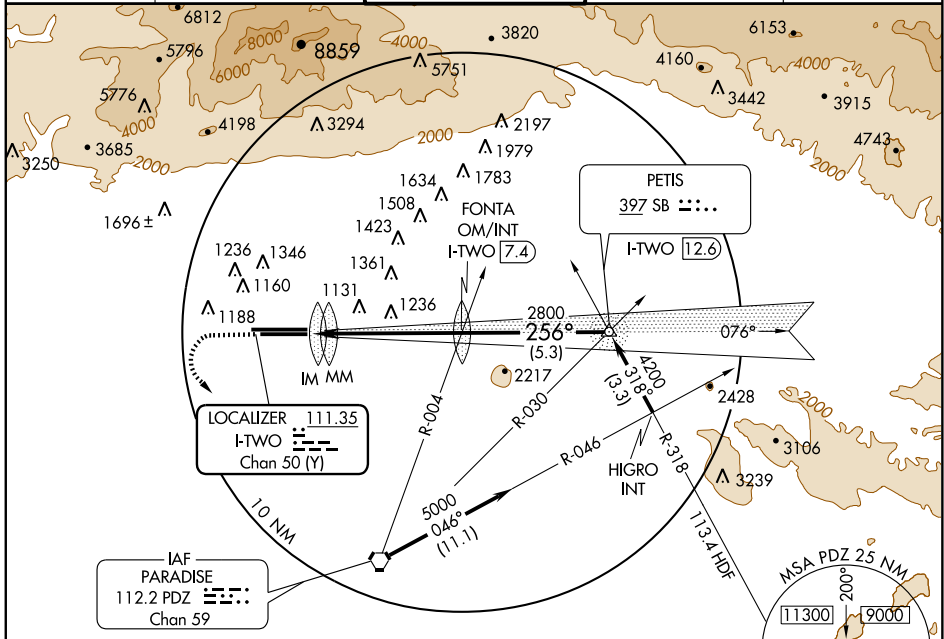
FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

LOC/DME I-TWO 111.35 Chan 50(Y)	APP CRS 256°	Rwy Idg TDZE Apt Elev 10200 926 944
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ILS RWY 26L (CAT II) ONTARIO INTL (ONT)

⚠ Circling NA north of Rwy 8L-26R.		ALSF-2 	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 direct PDZ VORTAC.	
ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1



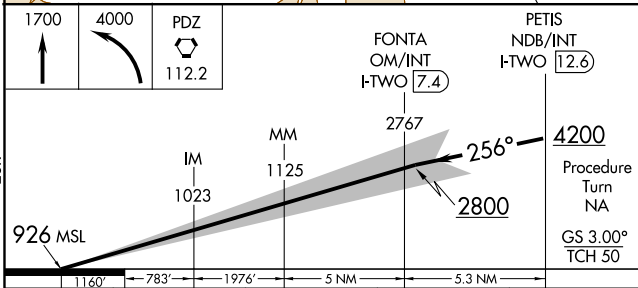
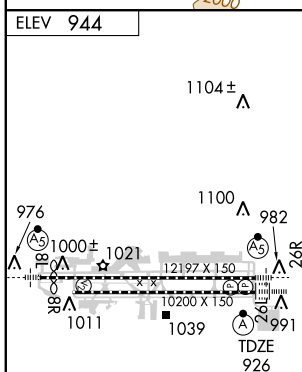
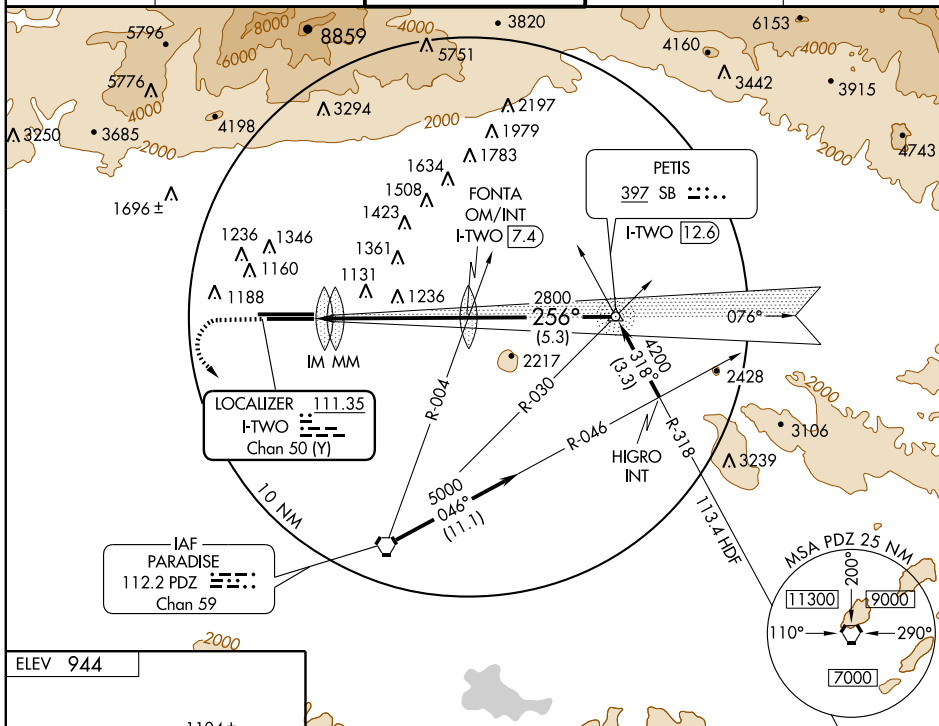
1700 ↑		4000 ↶		PDZ  112.2		Procedure Turn NA		FONTA OM/INT I-TWO 7.4		PETIS NDB/INT I-TWO 12.6	

LOC/DME I-TWO 111.35 Chan 50 (Y)	APP CRS 256°	Rwy Idg 10200 TDZE 926 Apt Elev 944
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ILS RWY 26L (CAT III)
ONTARIO INTL (ONT)

 Circling NA north of Rwy 8L-26R.	ALSF-2 	MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 direct PDZ VORTAC.
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ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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	CATEGORY	A	B	C	D
	S-ILS 26L	CAT IIIa		RVR 07	
	S-ILS 26L	CAT IIIb		RVR 06	
	S-ILS 26L	CAT IIIc		NA	

TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

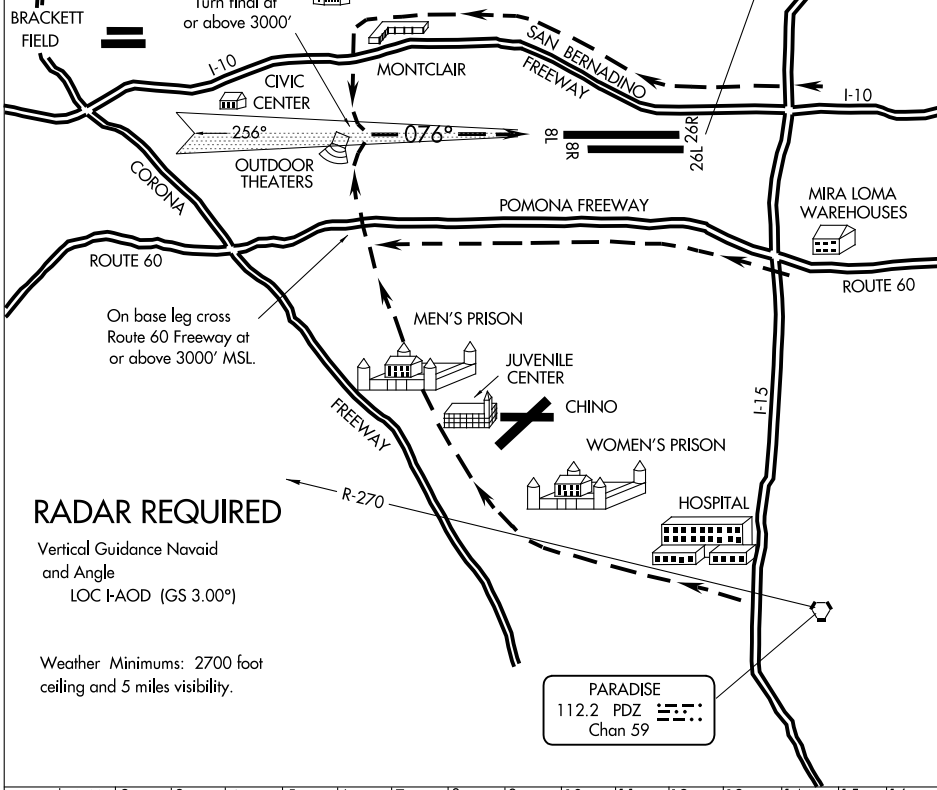
CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

INTERSTATE VISUAL RWY 8L

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA

ATIS 124.25
SOCAL APP CON
127.25 318.2
ONTARIO TOWER
120.6 360.775
GND CON
121.9 257.8
CLNC DEL
118.1

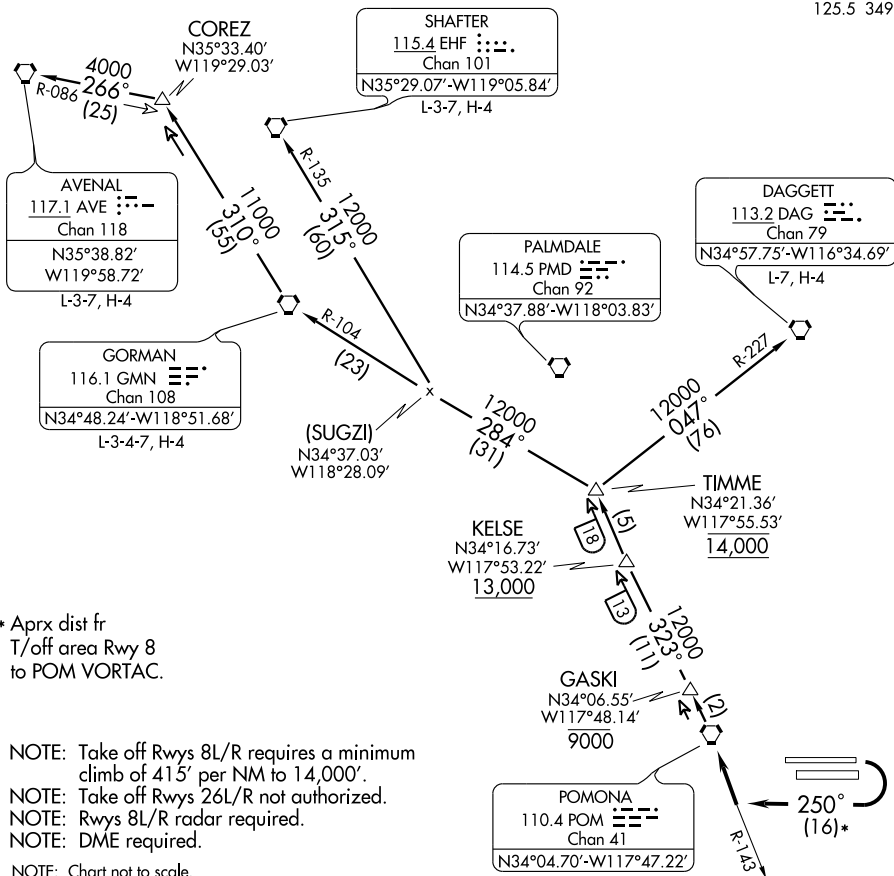


INTERSTATE VISUAL RWY 8L

When Visual Approaches to Runway 8L are in progress, clearances will be given utilizing in part the following phraseology:

"(IDENT) CLEARED FOR INTERSTATE VISUAL
RUNWAY 8L APPROACH."

ATIS 124.25
CLNC DEL 118.1
SOCAL DEP CON
125.5 349.0



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8L/R: Turn right heading 250° to intercept and proceed via POM R-143 to POM VORTAC. Cross GASKI at or below 9000, cross KELSE at or above 13,000, cross TIMME at 14,000. Then via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

AVENAL TRANSITION (ONT2.AVE):

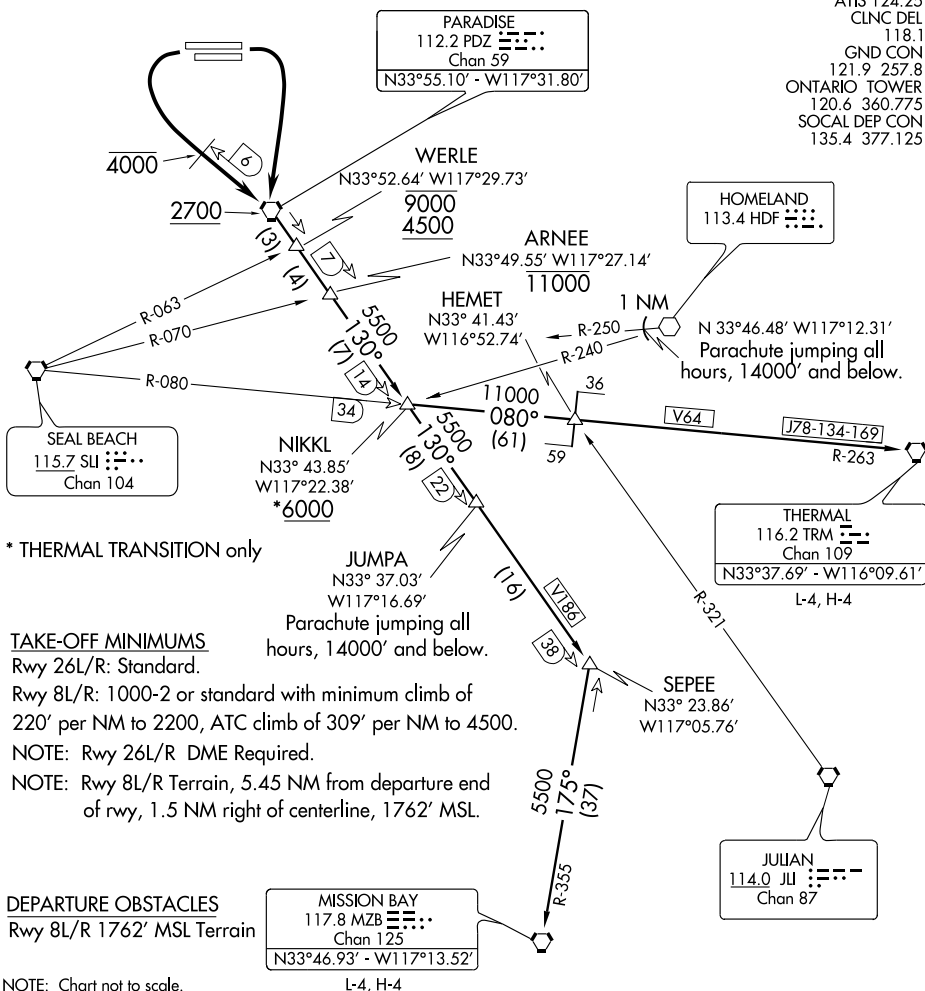
DAGGETT TRANSITION (ONT2.DAG):

GORMAN TRANSITION (ONT2.GMN):

SHAFER TRANSITION (ONT2.EHF):



ATIS 124.25
CLNC DEL
118.1
GND CON
121.9 257.8
ONTARIO TOWER
120.6 360.775
SOCAL DEP CON
135.4 377.125



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 8L/R: Climbing right turn direct PDZ VORTAC. Thence...

TAKE-OFF RWY 26L/R: Climbing left turn direct PDZ VORTAC, cross 6 DME northwest of PDZ VORTAC at or below 4000'. Thence...

...via (assigned transition) or (assigned route). Cross PDZ VORTAC at or above 2700', expect filed altitude ten minutes after departure.

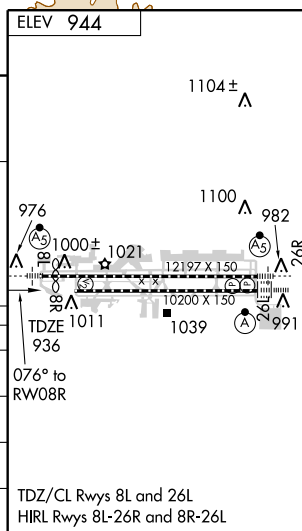
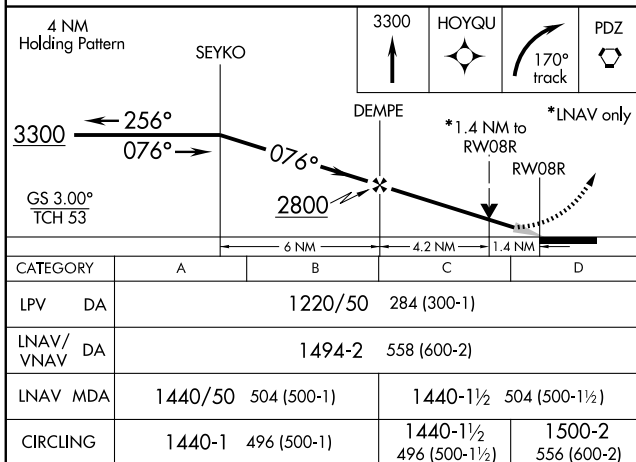
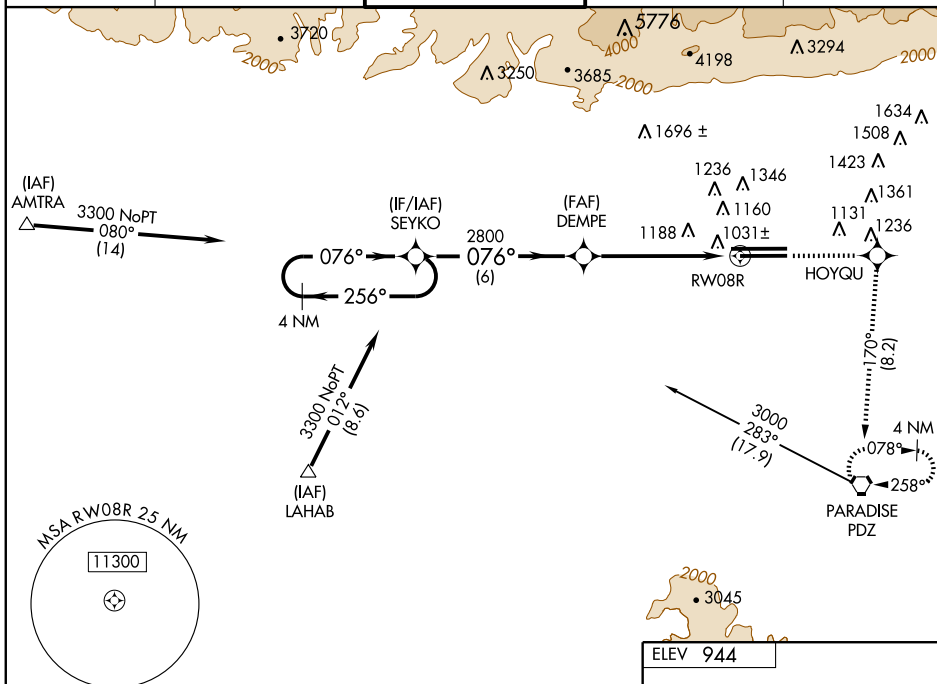
MISSION BAY TRANSITION (PRDO7.MZB): From over PDZ VORTAC via PDZ R-130 and MZB R-355 to MZB VORTAC.

THERMAL TRANSITION (PRDO7.TRM): From over PDZ VORTAC via PDZ R-130, SLI R-080 and TRM R-263 to TRM VORTAC.

MISSED APPROACH: Climb to 3300 direct HOYQU and turn right via 170° track to PDZ VORTAC and hold.

Circling NA north of Rwy 8L-26R.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.

ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL
124.25	127.25 318.2	120.6 360.775	121.9 257.8	118.1



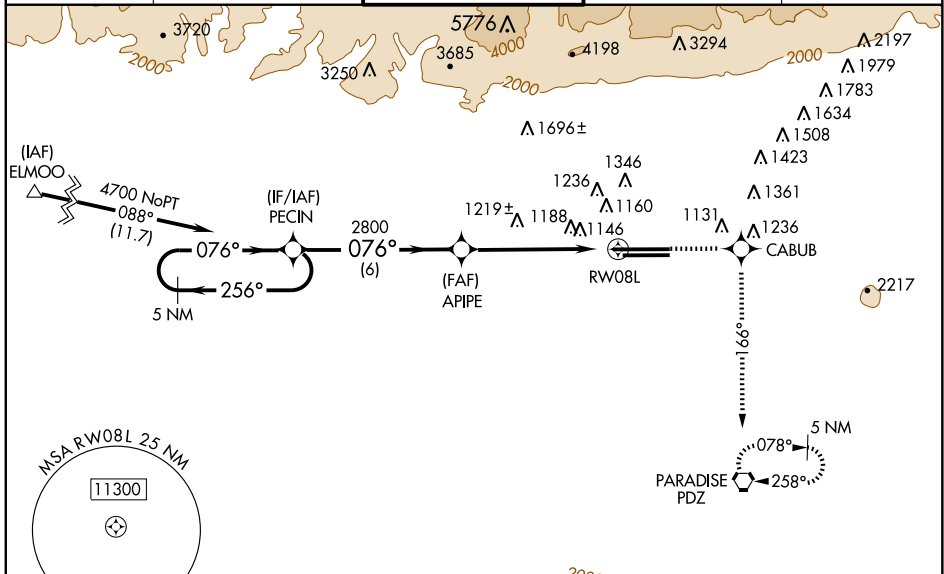
WAAS CH 45807 W08A	APP CRS 076°	Rwy Idg 11200 TDZE 944 Apt Elev 944
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RNAV (GPS) Y RWY 8L

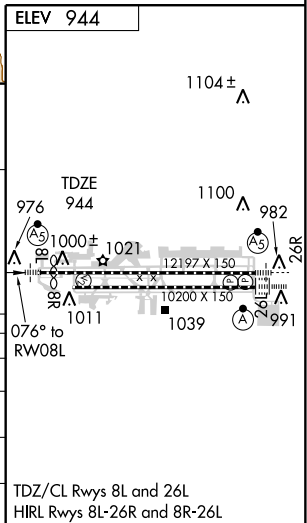
ONTARIO INTL (ONT)

⚠ DME/DME RNP -0.3 NA. Circling NA north of Rwy 8L-26R. ⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). VDP and Baro-VNAV NA when using Chino altimeter setting. When local altimeter setting not received, use Chino altimeter setting and increase all DAs/MDAs 60 feet and all visibilities ½ mile. For inoperative MALSR increase LPV visibility all Cats to RVR 6000.	MALSR AS	MISSED APPROACH: Climb to 4400 direct CABUB and via 166° track to PDZ VORTAC and hold, continue climb-in-hold to 4400.
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ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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5 NM Holding Pattern		PECIN	4400	CABUB	166° track	PDZ
4700		256°	076°	076°	2800	
GS 3.00°		TCH 45				
		6 NM	4.1 NM	1.5		
CATEGORY	A	B	C	D		
LPV DA		1266/40	322 (400-¾)			
LNAV/VNAV DA		1520-1½	576 (600-1½)			
LNAV MDA	1480/24	536 (600-½)	1480/50 536 (600-1)	1480/60 536 (600-1¼)		
CIRCLING	1480-1	536 (600-1)	1480-1½ 536 (600-1½)	1500-2 556 (600-2)		



WAAS CH 90407 W26B	APP CRS 256°	Rwy Idg 10200 TDZE 926 Apt Elev 944
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RNAV (GPS) Y RWY 26L

ONTARIO INTL (ONT)

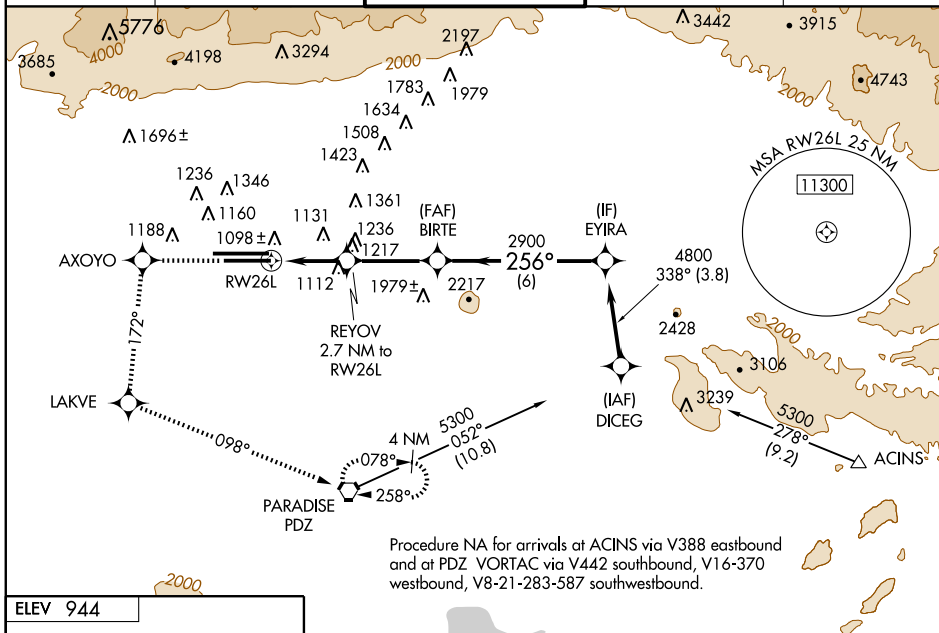
- ▼** DME/DME RNP -0.3 NA. Circling NA north of Rwy 8L-26R.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
Baro-VNAV and VDP NA when using Chino altimeter setting.
When local altimeter setting not received, use Chino altimeter setting and increase all DAs/MDAs 60 feet and all visibilities ½ mile.

ALSF-2



MISSED APPROACH: Climb to 4000 direct AXOYO and via 172° track to LAKVE and via 098° track to PDZ VORTAC and hold.

ATIS 124.25	SOCAL APP CON 127,25 318,2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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Procedure NA for arrivals at ACINS via V388 eastbound and at PDZ VORTAC via V442 southbound, V16-370 westbound, V8-21-283-587 southwestbound.

[illegible]

4000 ↑		AXOYO 	172° track	LAKVE 	098° track	PDZ 	BIRTE		EYIRA
* LNAV only		REYOV 2.7 NM to RW26L		1820*		256°		4800	Procedure Turn NA GS 3.00° TCH 50
		RW26L 1.4 NM to RW26L		1.3 NM		3.2 NM		6 NM	
CATEGORY		A		B		C		D	
LPV DA		1176/24		250 (300-½)					
LNAV/ VNAV DA		1405/60		479 (500-1¼)					
LNAV MDA		1420/24 494 (500-½)		1420/40 494 (500-¾)		1420/50 494 (500-1)			
CIRCLING		1420-1 476 (500-1)		1420-1½ 476 (500-1½)		1500-2 556 (600-2)			

WAAS CH 53406 W26A	APP CRS 256°	Rwy Idg 12197 TDZE 932 Apt Elev 944
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RNAV (GPS) Y RWY 26R

ONTARIO INTL (ONT)

▽ When local altimeter setting not received, use China altimeter setting and increase all DAs/MDAs 60 feet and all visibilities $\frac{1}{2}$ mile.
△ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
 VDP and Baro-VNAV NA when using China altimeter setting.
 DME/DME RNP-0.3 NA. Circling NA north of Rwy 8L-26R.

MALSR



MISSED APPROACH: Climb to 4000 direct to EGYAZ and via 171° track to LAKVE and via 098° track to PDZ VORTAC and hold.

ATIS

124.25

SOCAL APP CON

127.25 318.2

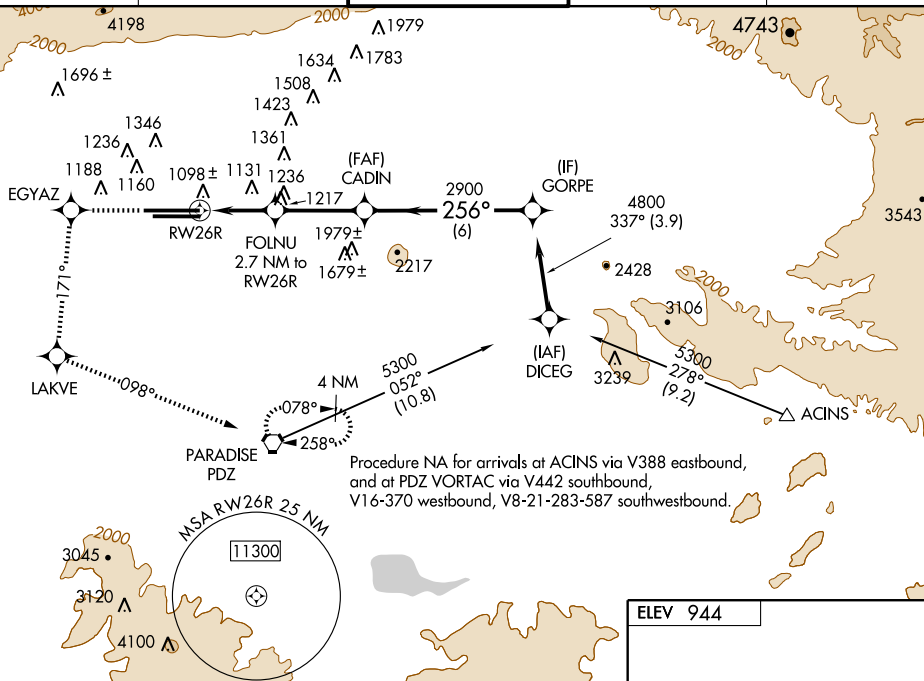
ONTARIO TOWER

120.6 360.775

GND CON

121.9 257.8

CLNC DEL

118.1

Procedure NA for arrivals at ACINS via V388 eastbound, and at PDZ VORTAC via V442 southbound, V16-370 westbound, V8-21-283-587 southwestbound.

ELEV 944

4000	EGYAZ	171° track	LAKVE	098° track	PDZ	VGSI and RNAV glidepath not coincident.
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*LNAV only

FOLNU

2.7 NM to RW26R

CADIN

*1.4 NM to RW26R

1800*

2900

256°

4800

2900

6 NM

GS 3.00°

TCH 60

Procedure Turn NA

GORPE

1104±

976

1000±

1021

12197 X 150

1011

1039

991

256° to RW26R

CATEGORY	A	B	C	D
LPV DA	1182/24		250 (300- $\frac{1}{2}$)	
LNAV/VNAV DA	1406/50		474 (500-1)	
LNAV MDA	1440/24		508 (500- $\frac{1}{2}$)	
CIRCLING	1440-1		496 (500-1)	

TDZ/CL Rwy 8L and 26L
 HIRL Rwy 8L-26R and 8R-26L

RNAV (RNP) Z RWY 8L

ONTARIO INTL (ONT)

APP CRS 076°	Rwy Idg TDZE Apt Elev	11200 944 944
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GPS required.

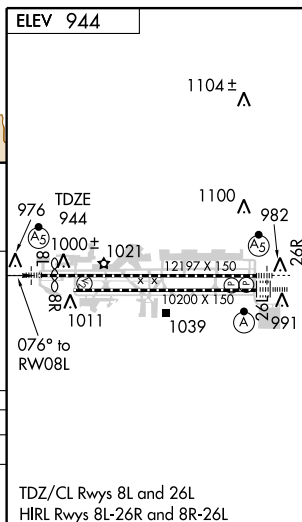
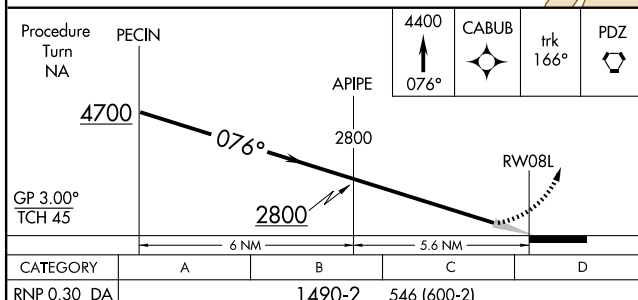
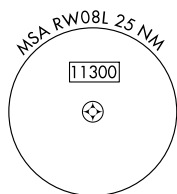
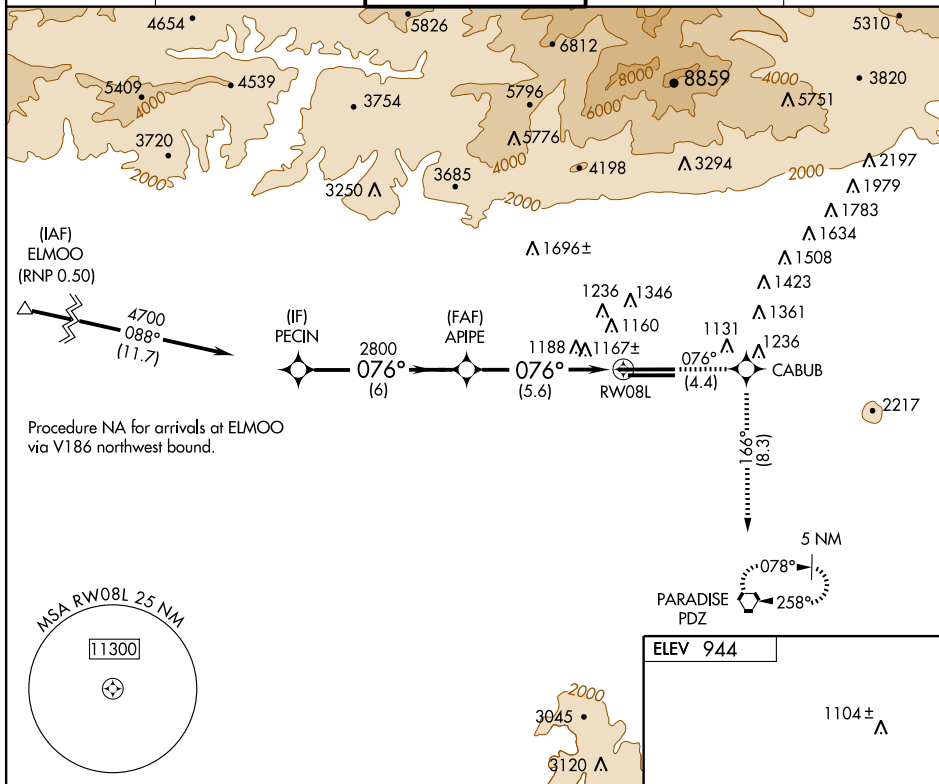
For uncompensated Baro-VNAV systems, LNAV/VNAV, procedure NA below -1°C (31°F) or above 47°C (116°F). Inoperative table does not apply.

MALSR



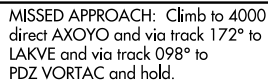
MISSED APPROACH: Climb to 4400 via track 076° to CABUB and via track 166° to PDZ VORTAC and hold, continue climb-in-hold to 4400.

ATIS 124.25	SOCAL APP CON 127.25 318.2	ONTARIO TOWER 120.6 360.775	GND CON 121.9 257.8	CLNC DEL 118.1
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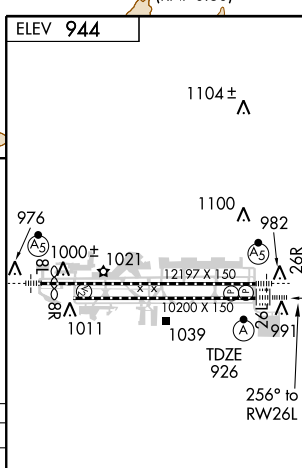
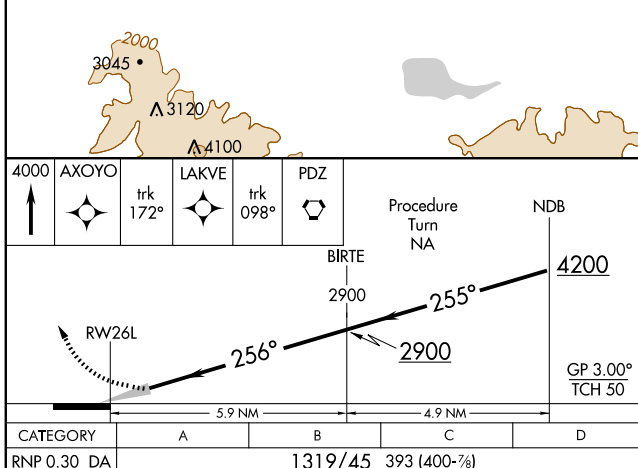
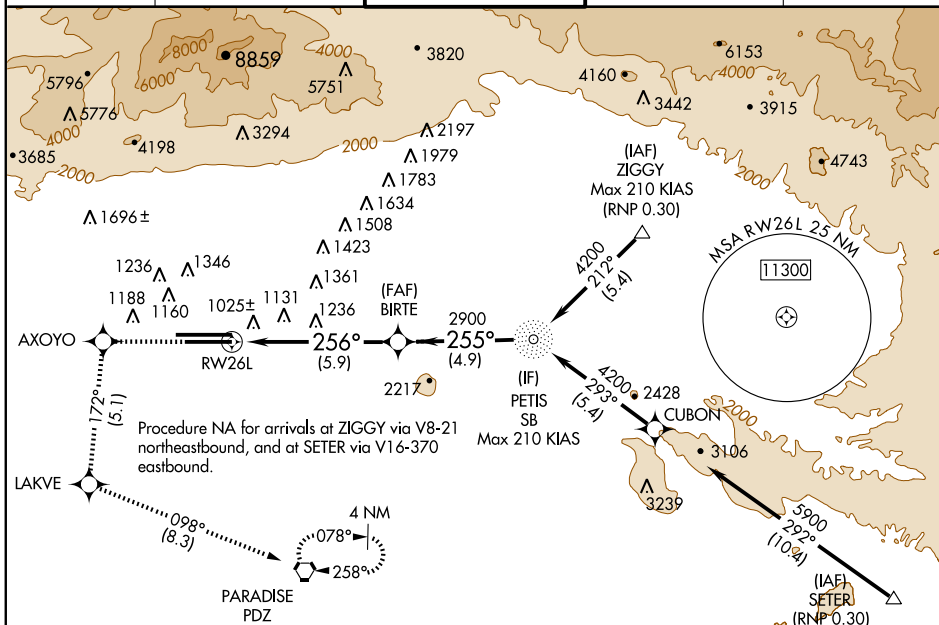


**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

RNAV (RNP) Z RWY 26L
ONTARIO INTL (ONT)

CLNC DEL
118.1



**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

APP CRS	Rwy Idg	12197
256°	TDZE	932
	Apt Elev	944

RNAV (RNP) Z RWY 26R

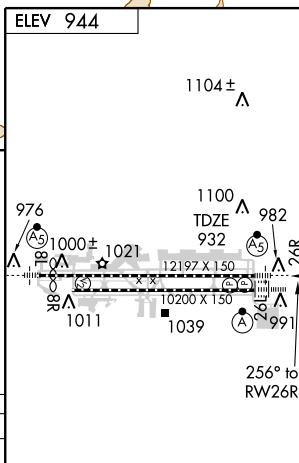
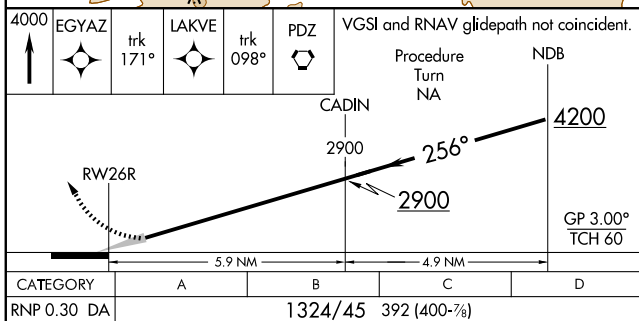
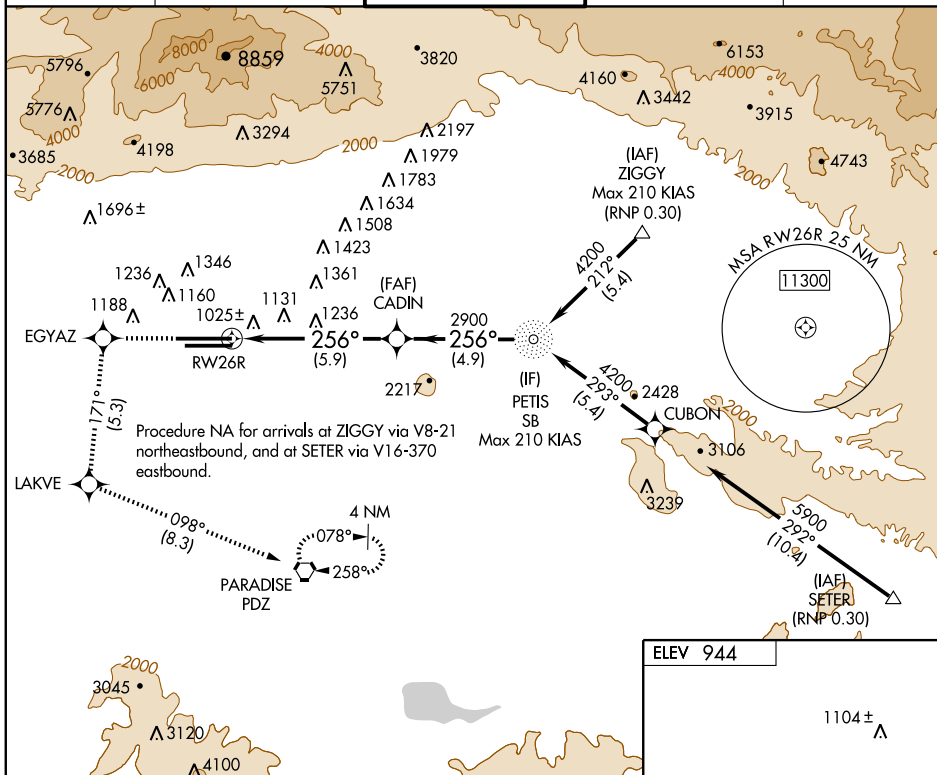
ONTARIO INTL (ONT)

GPS required.
For uncompensated Baro-VNAV systems, procedure NA below -1°C (28°F) or above 47°C (116°F).
For inoperative MALSR increase RNP 0.30 visibility to RVR 6000.



MISSED APPROACH: Climb to 4000 direct EGYAZ and via track 171° to LAKVE and via track 098° to PDZ VORTAC and hold.

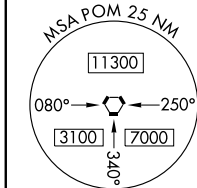
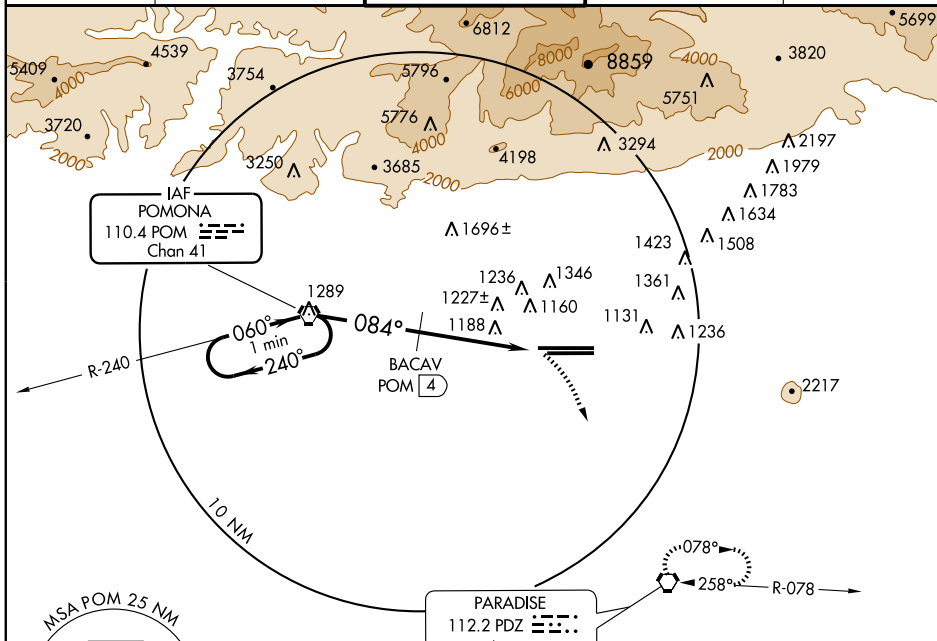
ATIS	SOCAL APP CON	ONTARIO TOWER	GND CON	CLNC DEL
124.25	127.25 318.2	120.6 360.775	121.9 257.8	118.1



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

MISSED APPROACH: Climb to 1600 then climbing right turn to 4000 direct PDZ VORTAC and hold.

CLNC DEL
118.1
$$\frac{4000}{\quad} \begin{array}{c} \leftarrow 240^\circ \\ 060^\circ \rightarrow \end{array}$$

BACAV
POM 4

PC

1

8

4

3.28°

TCH :

--	--

1

	54
	1

160

4000

PDZ

ELEV 944

1104 ± 1.1

1100 Δ

7.5

1998

27 X 150

10 X 150

39 (A)

L
P 241

TDZ/CL Rwy 8L and 26L
HIRL Rwy 8L-26R and 8R-26L

ZIGGY FOUR ARRIVAL

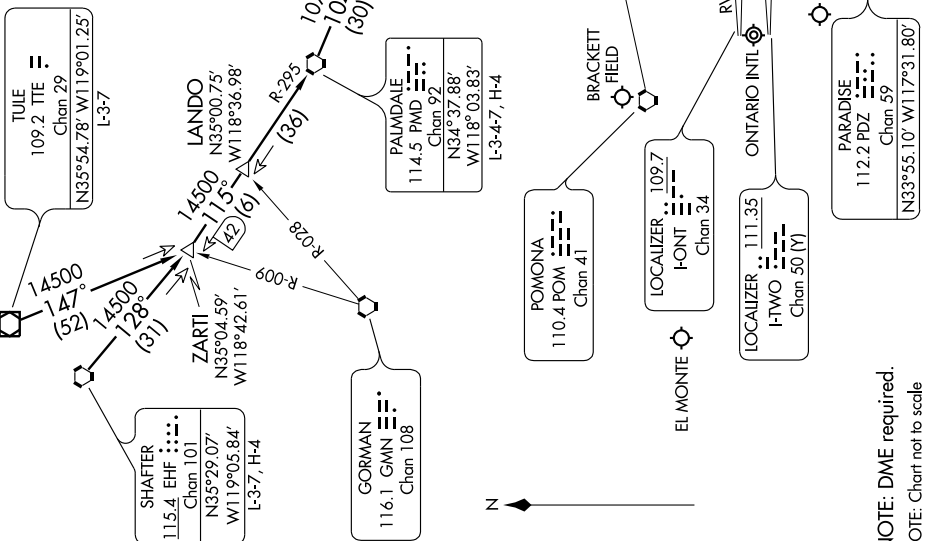
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



NOTE: DME required.
NOTE: Chart not to scale

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

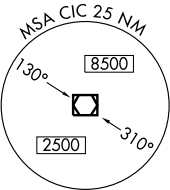
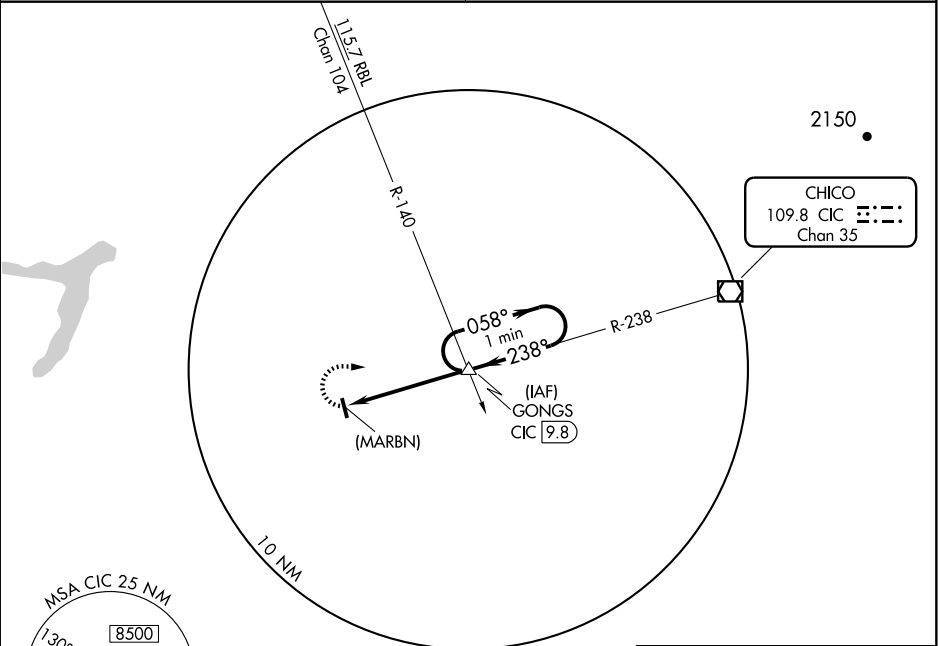
VOR/DME CIC	APP CRS	Rwy Idg TDZE	N/A
109.8	238°		N/A
Chan 35		Apt Elev	215

VOR or GPS-A

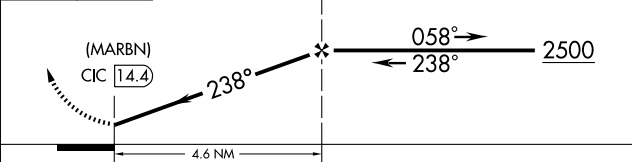
ORLAND/ HAIGH FIELD (037)

NA	Use Chico altimeter setting, when not received, use Redding altimeter setting.	MISSED APPROACH: Climbing right turn to 2500 via CIC R-238 to GONGS INT and hold.
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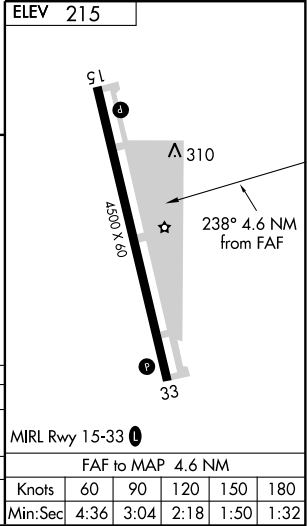
OAKLAND CENTER 132.2 350.3	UNICOM 122.7(CTAF)
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2500 CIC R-238	GONGS 	GONGS CIC 9.8	One Minute Holding Pattern
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CATEGORY	A	B	C	D
CIRCLING	900-1 685 (700-1)		900-2 685 (700-2)	900-2 1/4 685 (700-2 1/4)
REDDING ALTIMETER SETTING MINIMUMS				
CIRCLING	1020-1 805 (900-1)	1020-1 1/4 805 (900-1 1/4)	1020-2 1/4 805 (900-2 1/4)	1020-2 1/2 805 (900-2 1/2)



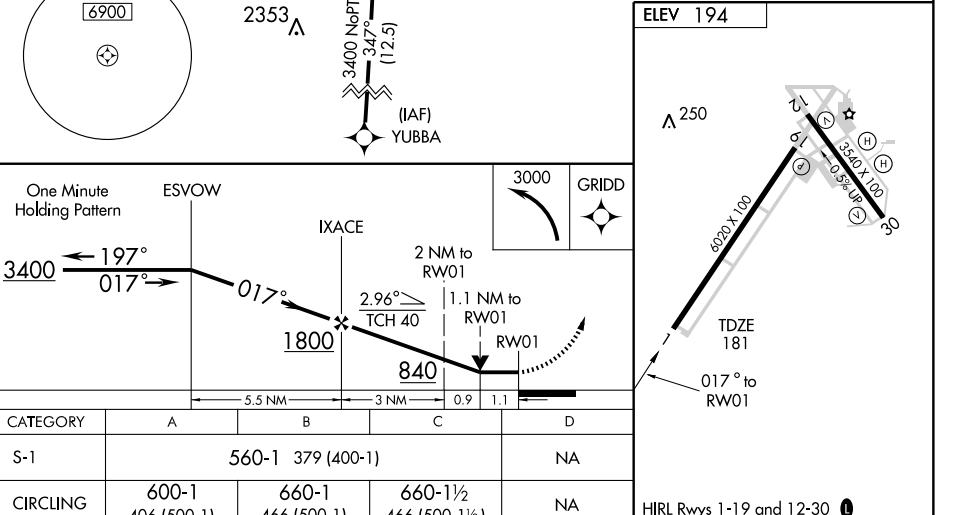
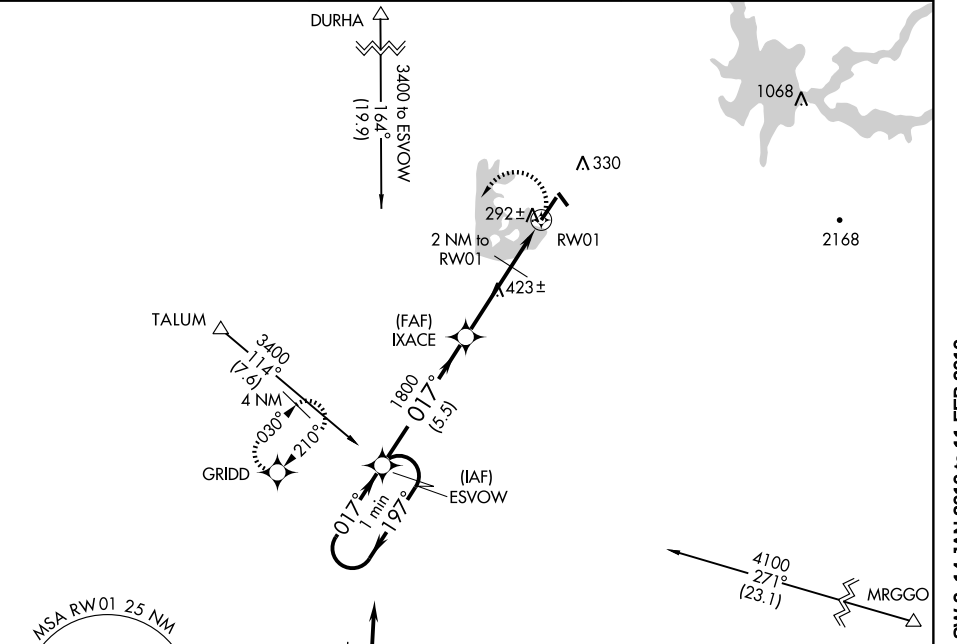
▼

▲NA

Circling not authorized northeast of Rwy 12-30

MISSED APPROACH: Climbing left turn to 3000 direct GRIDD WP and hold.

ASOS 121.425	NORCAL APP CON 125.4 259.1	UNICOM 122.8 (CTAF) 0
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VORTAC MYV 110.8 Chan 45	APP CRS 338°	Rwy Idg TDZE Apt Elev	N/A N/A 194
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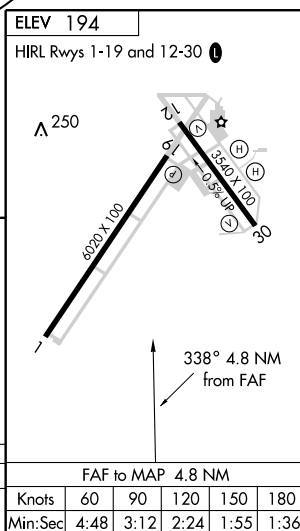
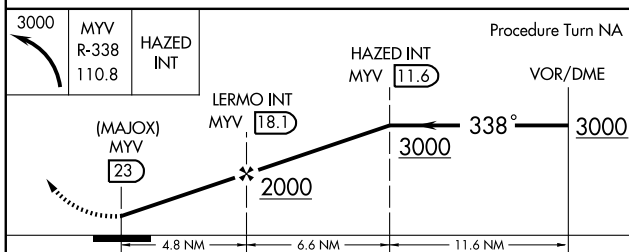
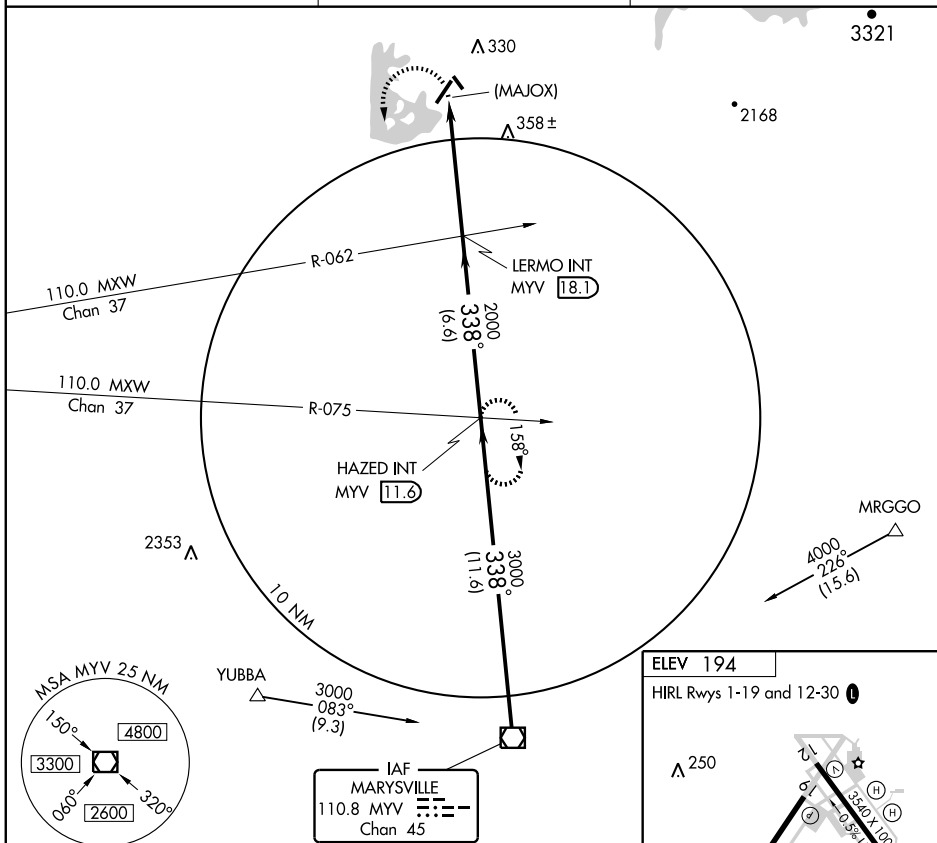
VOR or GPS-A
OROVILLE MUNI (OVE)

T
A NA Circling not authorized Northeast Rwy 12-30

MISSED APPROACH: Climbing left turn to 3000 via MYV R-338 to HAZED Int/MYV 11.6 DME and hold.

ASOS
121,425

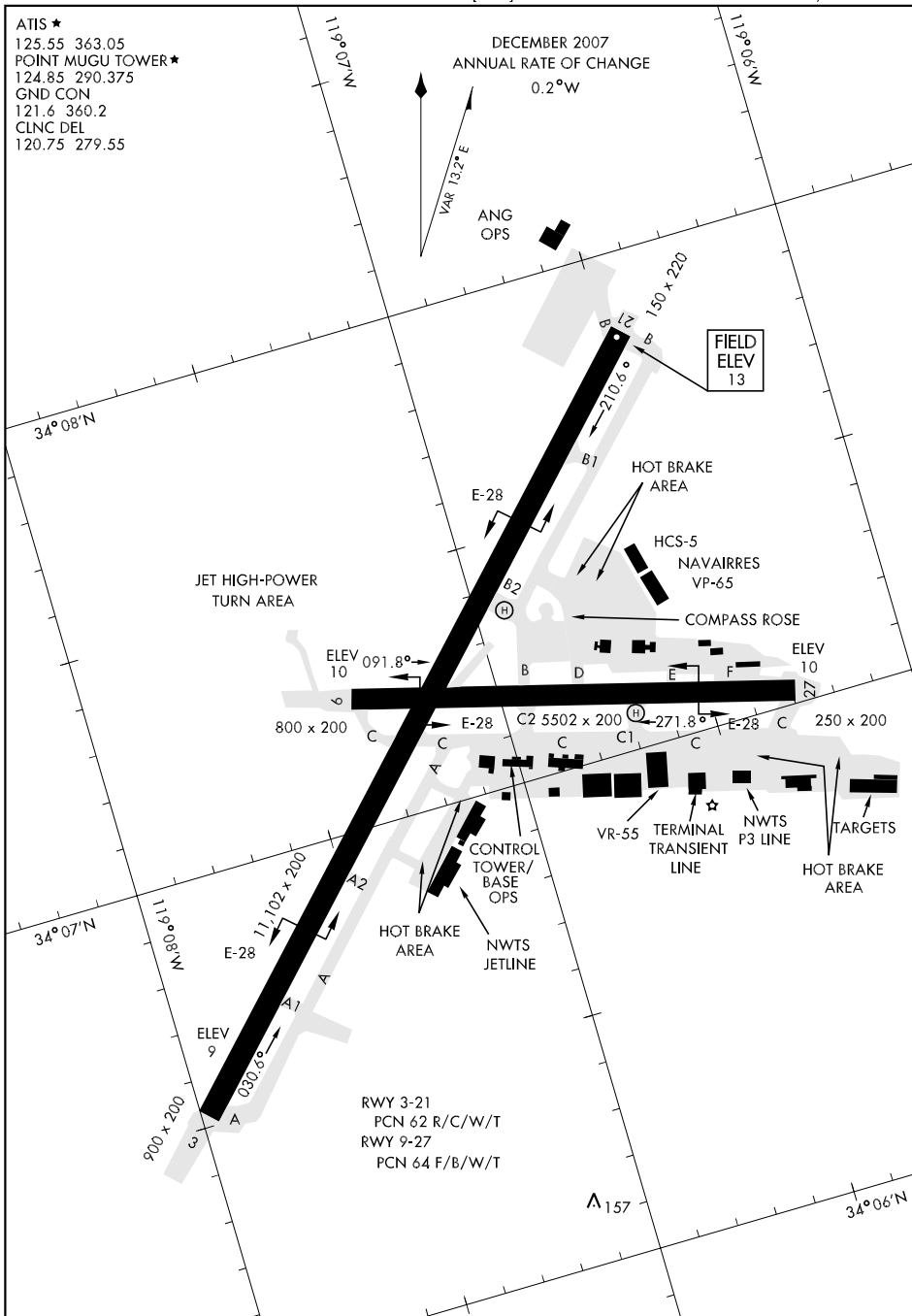
NORCAL APP CON
125.4 259.1

UNICOM
122.8 (CTAF) **L**

ATIS ★
125.55 363.05
POINT MUGU TOWER ★
124.85 290.375
GND CON
121.6 360.2
CLNC DEL
120.75 279.55

DECEMBER 2007
ANNUAL RATE OF CHANGE
0.2°W

SW-3, 14 JAN 2010 to 11 FEB 2010

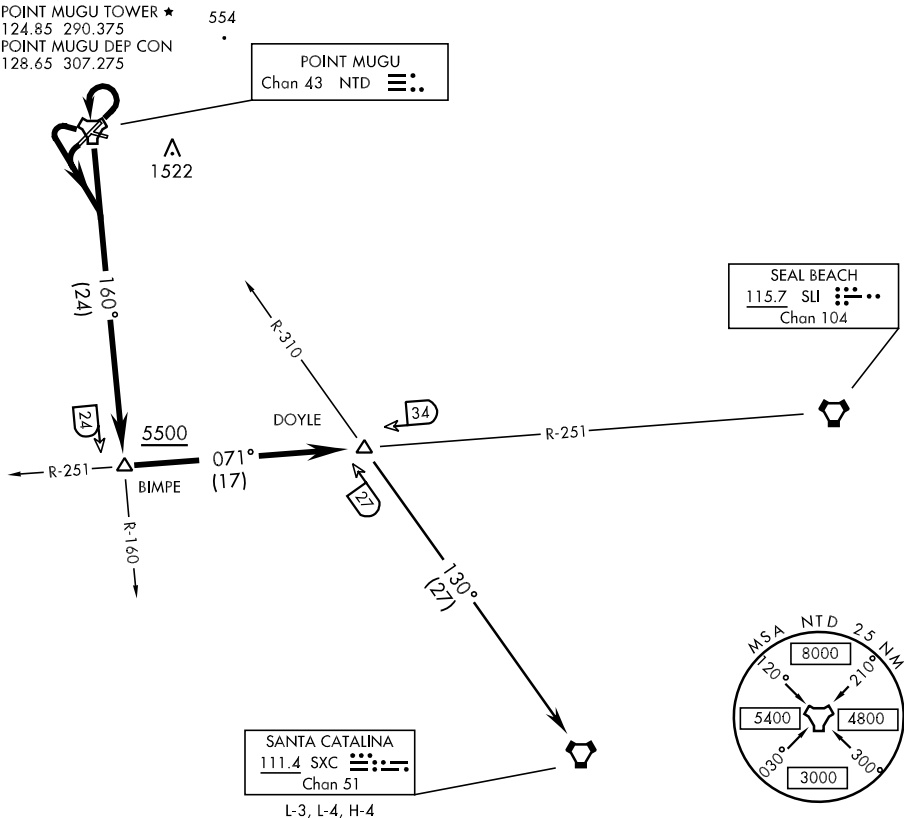


OXNARD, CALIFORNIA

ATIS★ 125.55 363.05
 CLNC DEL
 120.75 279.55
 GND CON
 121.6 360.2
 POINT MUGU TOWER ★
 124.85 290.375
 POINT MUGU DEP CON
 128.65 307.275

SHL-925 [USN]

TACAN REQUIRED



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn within 3 DME of NTD TACAN, direct NTD, thence...

TAKE-OFF RWY 21, 27: Left turn, thence...

Intercept NTD R-160 and via NTD R-160 to BIMPE (NTD R-160/24 DME), then via SLI VORTAC R-251 to DOYLE, then via assigned routing. Cross BIMPE at or above 5500.

SANTA CATALINA TRANSITION (DOYLE 7 • SXC): DOYLE (SLI R-251/34 DME) to SANTA CATALINA VORTAC via SXC R-310. Then as filed.

OXNARD, CALIFORNIA

ATIS ★ 125.55 363.05
CLNC DEL
120.75 279.55
GND CON
121.6 360.2
POINT MUGU TOWER ★
124.85 290.375
POINT MUGU DEP CON
128.65 307.275

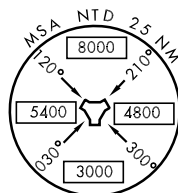
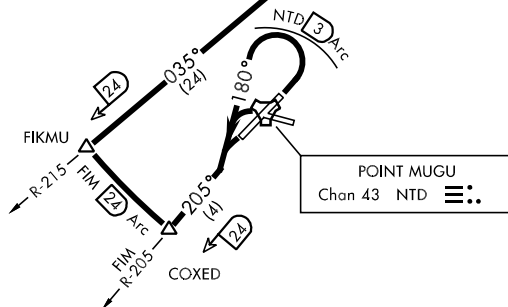
SHL-925 [USN]

FILLMORE

112.5 FIM ䷗

L-3, L-4, L-7, H-4, A-2

TACAN REQUIRED



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn to heading 180° within 3 DME of NTD TACAN, thence...

TAKE-OFF RWY 21, 27: Left turn, thence...

Intercept FIM VORTAC R-205 to COXED (FIM R-205/24 DME), arc SW of FIM to FIKMU (FIM R-215/24 DME) via FIM 24 mile arc, then via FIM R-215 to FIM, then via assigned routing.

TACAN NTD Chan 43	APCH CRS 213°	Rwy Idg 11,102 TDZE 13 Arpt Elev 13
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JAL-925 [USN]

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

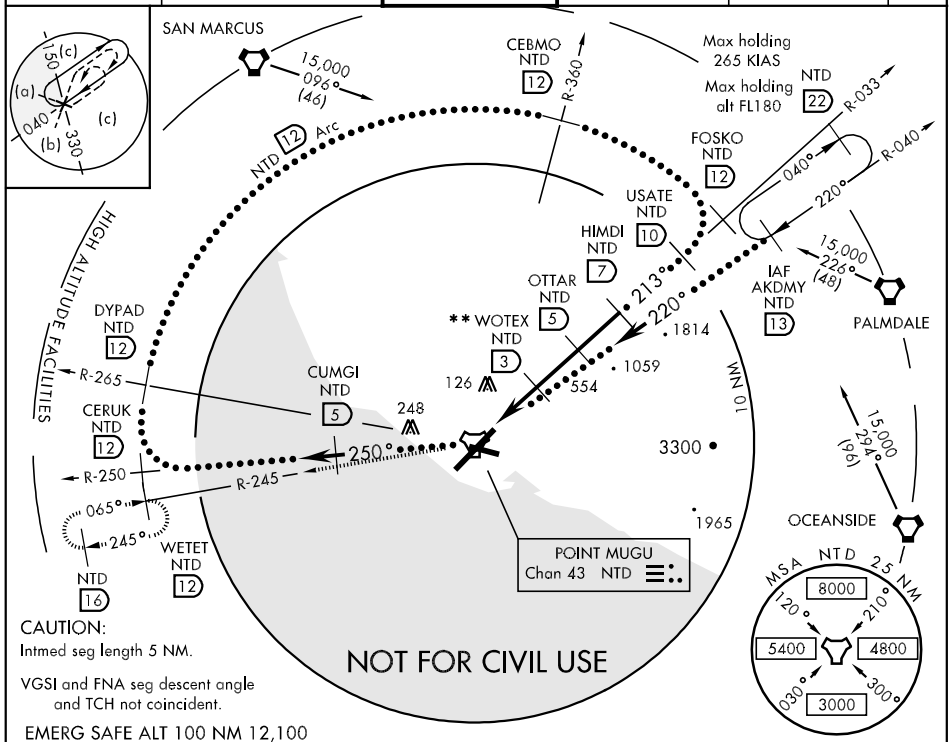
▼ When ALS inop, increase CAT C vis to 1 mile, CAT DE to 1¼ miles.
 *** Alternate MAP, Fly visual to airport.
 *** Circling not authorized E of Rwy 3-21 or when alternate MAP Rwy 21 in use.

MALSR

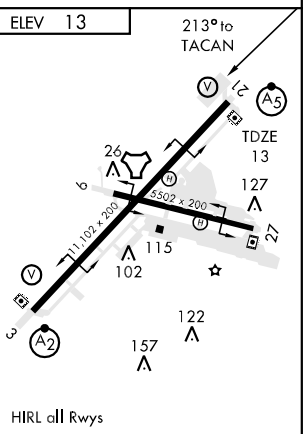


MISSED APPROACH: Climb to 5000 via NTD TACAN R-033 to NTD, then via NTD R-245 to WETET and hold.

ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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AKDMY R-040 13	† Or as assigned.	CUMGI R-250 5	CERUK R-250 12	DYPAD R-265 12	CEBMO R-360 12	FOSKO R-033 12
TACAN						
+15,000	220°	250°	15,000	8000	5000	3900
5000	NTD R-033	** WOTEX 3	OTRAR 7	USATE 10	3300	3.38° TCH 44
NTD R-245 to WETET		ZATPO 1.6	HIMDI 5			
		1.4	2 NM	2 NM		
CATEGORY	C	D	E			
S-21 *	380-¾	367	(400-¾)			
S-21 **	860-2	847	(900-2)			
CIRCLING ***	480-1½ 467 (500-1½)	580-2	567 (600-2)			
S-PAR 21	113-½	100	(100-½) GS 3.00°			



LOC I-RRG 109.3 Chan 30	APCH CRS 210°	Rwy ldg 11,102 TDZE 13 Arpt Elev 13
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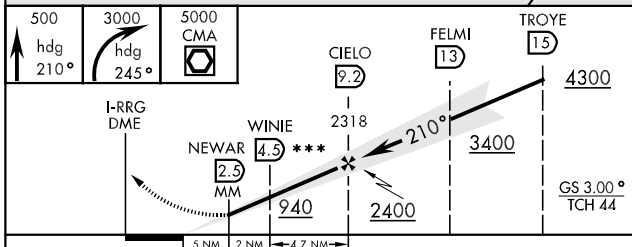
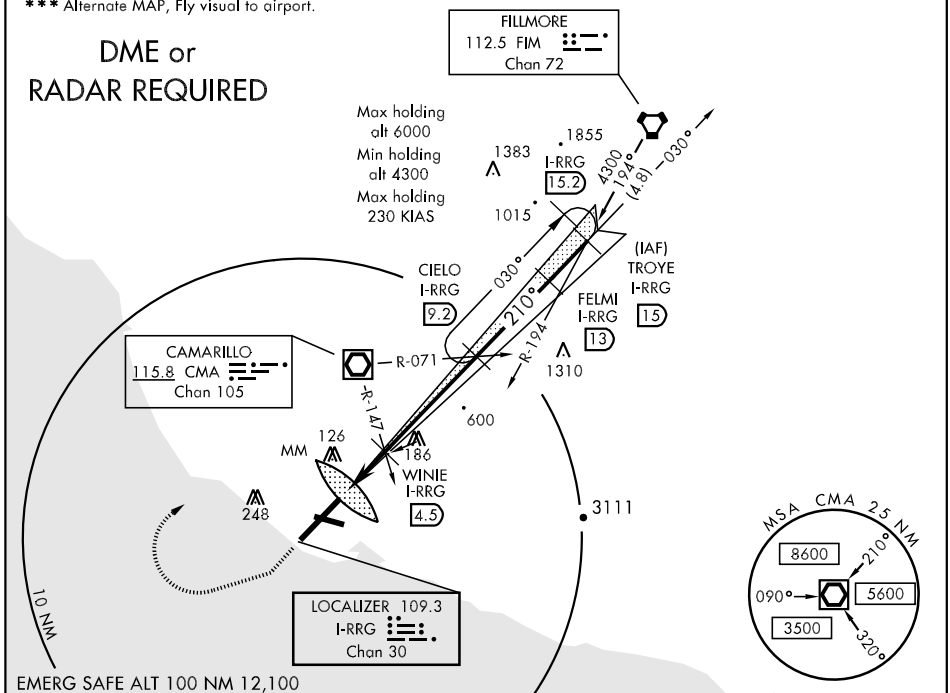
AL-925 [USN]

POINT MUGU NAS
(NAVAL BASE VENTURA CO)(KNTD)

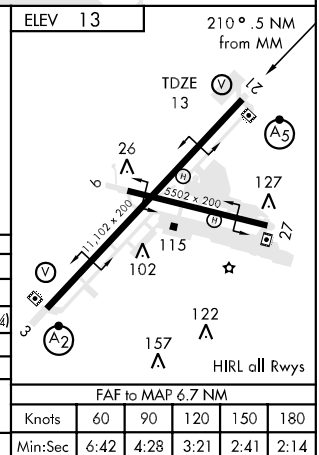
▼ * When ALS inop, increase vis (ILS) CAT ABCD to ¾ mile, (LOC) CAT ABC to 1 mile, CAT D to 1 ¼ miles. ** Circling not authorized E of Rwy 3-21 or when alternate MAP Rwy 21 in use.	MALSR	MISSED APPROACH: Climb to 500 via hdg 210°, then climbing right turn to 3000 via hdg 245° then climbing right turn to 5000 direct CMA VOR/DME, then via CMA R-071 to CIELO and hold.
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ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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*** Alternate MAP, Fly visual to airport.

DME or
RADAR REQUIRED

CATEGORY	A	B	C	D
S-ILS 21 *		213-½	200 (200-½)	
S-LOC 21 *	360-½	347 (400-½)		360-¾ 347 (400-¾)
S-ILS 21 ***		886-2	873 (900-2)	
S-LOC 21 ***		940-2	927 (1000-2)	
CIRCLING **	420-1 407 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)
S-PAR 21		113-½	100 (100-½)	GS 3.0°



APCH CRS 030°	Rwy Idg 11,102
	TDZE 11
	Arpt Elev 13

AL-925 [USN]

▼ * When ALS inop, increase CAT ABCD vis to 1 mile.
** Circling not authorized E of Rwy 3-21.
*** When ALS inop, increase CAT ABCD vis to ½ mile.



MISSED APPROACH: Climb to 500, then climbing left turn to 2600 direct RENET and hold.

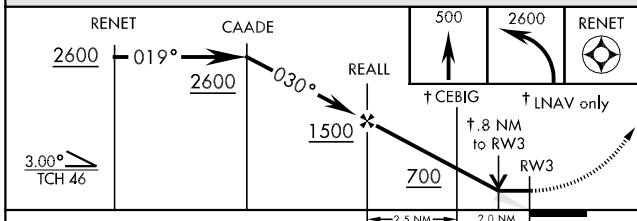
ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 42°C (108°F).

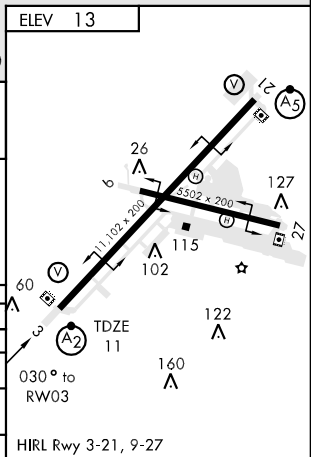
DME/DME RNP-0.3 NA



EMERG SAFE ALT 100 NM 12,100



CATEGORY	A	B	C	D
LNAV MDA *	320-¾	309	(400-¾)	
LNAV/VNAV* DA	321-¾	310	(400-¾)	
CIRCLING **	420-1 407 (500-1)	480-1 467 (500-1)	480-1½ 467 (500-1½)	580-2 567 (600-2)
S-PAR 3 ***	111-¼	100 (100-¼)	GS 3.0°	



APCH CRS **210°** Rwy Idg **11,102**
 TDZE **13**
 Arpt Elev **13**

AL-925 [USN]

POINT MUGU NAS (KNTD)
 (NAVAL BASE VENTURA CO)

- V** * When ALS inop, increase CAT ABC vis to 1 mile, CAT D vis to 1½ miles.
 ** When ALS inop, increase CAT ABCD vis to 1 mile.
 *** Circling not authorized E of Rwy 3-21.

MALSR



MISSED APPROACH: Climb to
 2600 direct RENET and hold.

ATIS ★
125.55 363.05

POINT MUGU APP CON
128.65 307.275

POINT MUGU TOWER ★
124.85 290.375

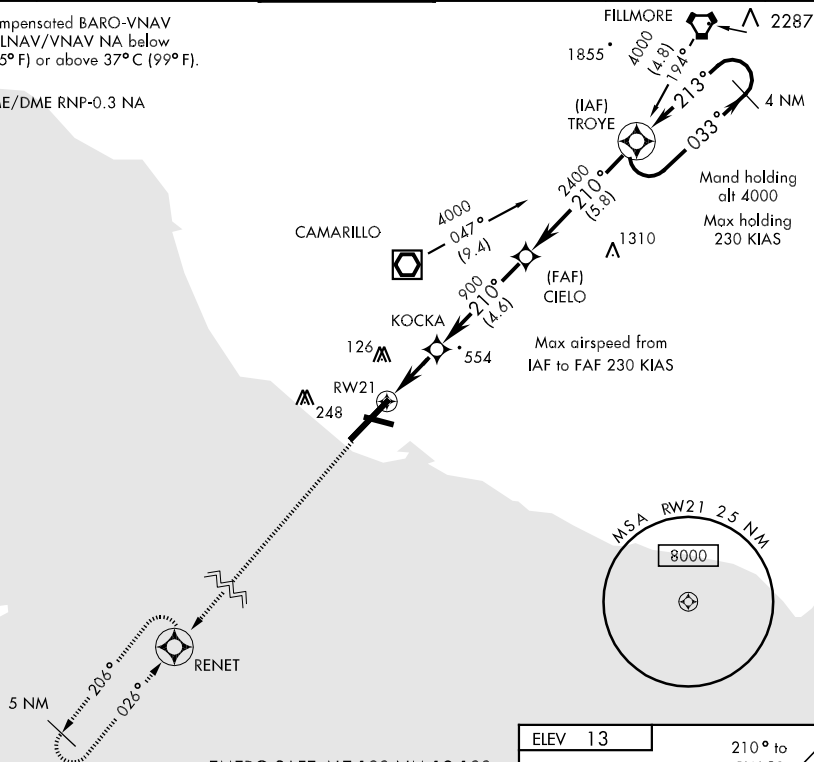
GND CON
121.6 360.2

CLNC DEL
120.75 279.55

ASR/
 PAR

For uncompensated BARO-VNAV
 systems, LNAV/VNAV NA below
 -15° C (5° F) or above 37° C (99° F).

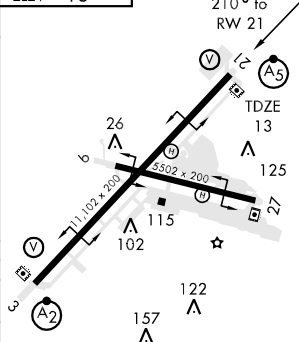
DME/DME RNP-0.3 NA



EMERG SAFE ALT 100 NM 12,100

2600	RENET	TROYE			
↑	↑ LNAV only	033° → 4000			
RW21	↑ KOCKA	210° ← 2400			
↑ 1 NM to RW21	900	GS 3.06° TCH 44			
2.6 NM		4.6 NM			
CATEGORY	A	B	C	D	
LNAV MDA *	380-¾	367	(400-¾)	380-1	367 (400-1)
LNAV/VNAV **	286-¾		273	(300-¾)	
CIRCLING ***	420-1	480-1	480-1½	580-2	
	407 (500-1)	467 (500-1)	467 (500-1½)	567 (600-2)	
S-PAR 21	111-¼		100 (100-¼)	GS 3.0°	

ELEV 13



HIRL Rwy 3-21, 9-27

SAN MARCUS-SEVEN DEPARTURE (RZS 7 • RZS)

OXNARD, CALIFORNIA

ATIS ★ 125.55 363.05
CLNC DEL
120.75 279.55
GND CON
121.6 360.2
POINT MUGU TOWER ★
124.85 290.375
POINT MUGU DEP CON
128.65 307.275

SHL-925 [USN]

TACAN REQUIRED

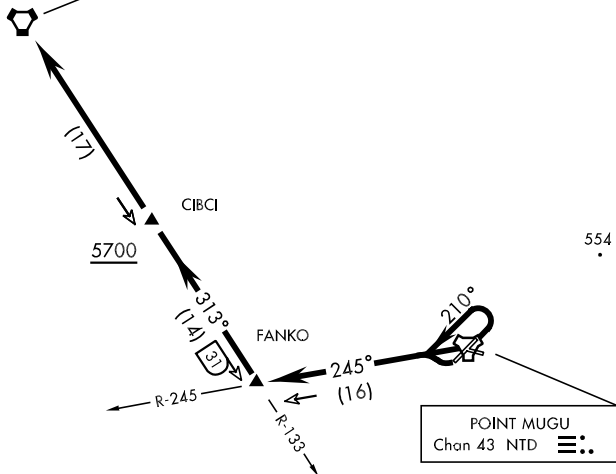
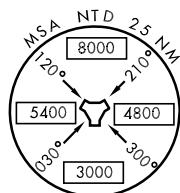
AVENAL
117.1 AVE
Chan 118

L-3, L-7, H-4

SHAFTER
115.4 EHF
Chan 101

L-3, L-7, H-4

SAN MARCUS
114.9 RZS
Chan 96



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climbing left turn to 210° within 3 DME of NTD TACAN, thence...

TAKE-OFF RWY 21: Turn right, thence...

TAKE-OFF RWY 27: Turn left, thence...

Intercept NTD R-245 and via NTD R-245 to FANKO (NTD R-245/16 DME), then via RZS VORTAC R-133 to RZS VORTAC, then via assigned routing. Cross CIBCI (RZS R-133/17 DME) at or above 5700.

AVENAL TRANSITION (RZS 7 • AVE): From over SAN MARCUS VORTAC via RZS R-338 to AVENAL VORTAC. Cross SAN MARCUS VORTAC at or above 7900.

SHAFTER TRANSITION (RZS 7 • EHF): From over SAN MARCUS VORTAC via RZS R-015 to SHAFTER VORTAC. Cross SAN MARCUS VORTAC at or above 8900.

SAN MARCUS-SEVEN DEPARTURE (RZS 7 • RZS)

OXNARD, CALIFORNIA

SW-3, 14 JAN 2010 to 11 FEB 2010

VORTAC FIM 112.5 Chan 72	APCH CRS 025°	Rwy Idg 11,102 TDZE 11 Arpt Elev 13
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AL-925 [USN]

POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

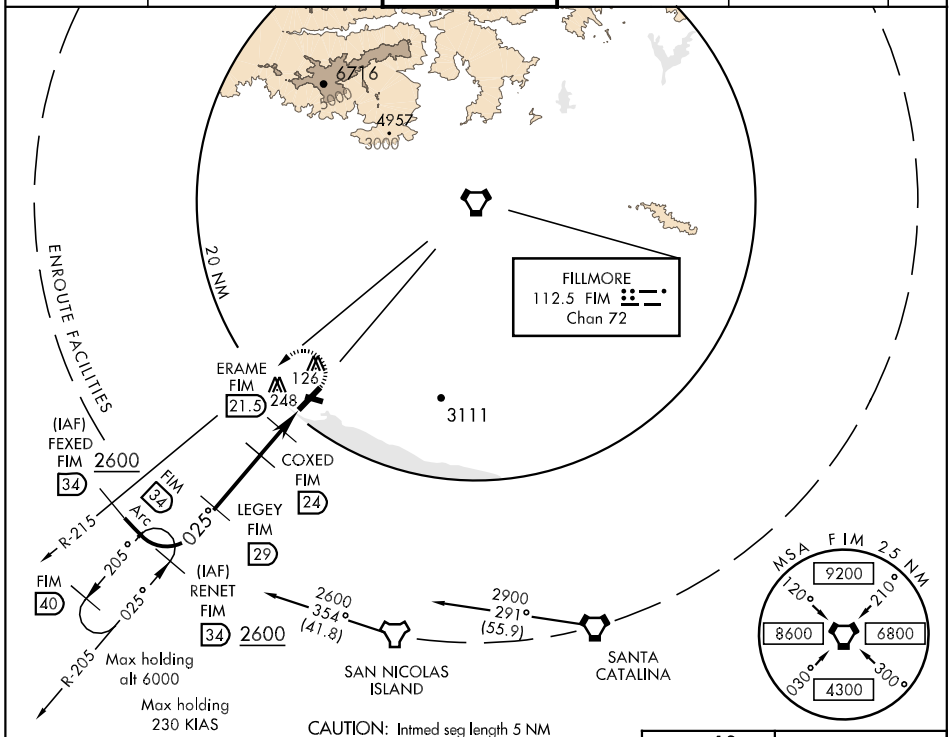
▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT CD to 1½ miles, CAT E to 1½ miles.



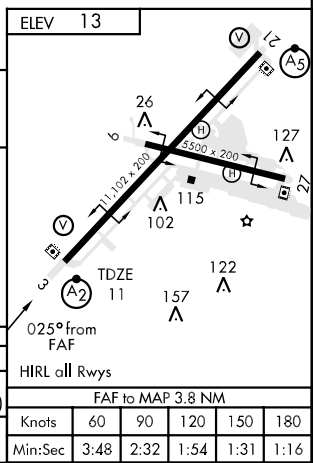
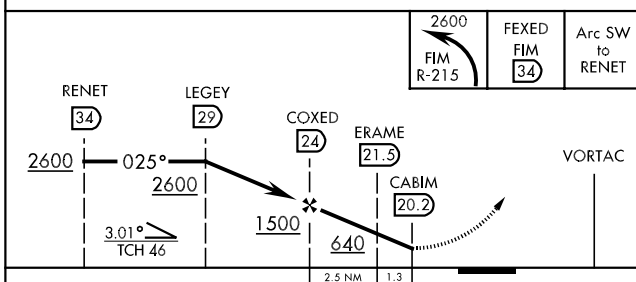
MISSED APPROACH: Climbing left turn to 2600. Intercept the FIM VORTAC R-215, then via FIM R-215 to FEXED, Arc SW of FIM via the 34 DME arc to RENET and hold.

** Circling not authorized E of Rwy 3-21.

ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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EMERG SAFE ALT 100 NM 12,100



TACAN NTD Chan 43	APCH CRS 213°	Rwy ldg 11,102 TDZE 13 Arpt Elev 13
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AL-925 [USN]

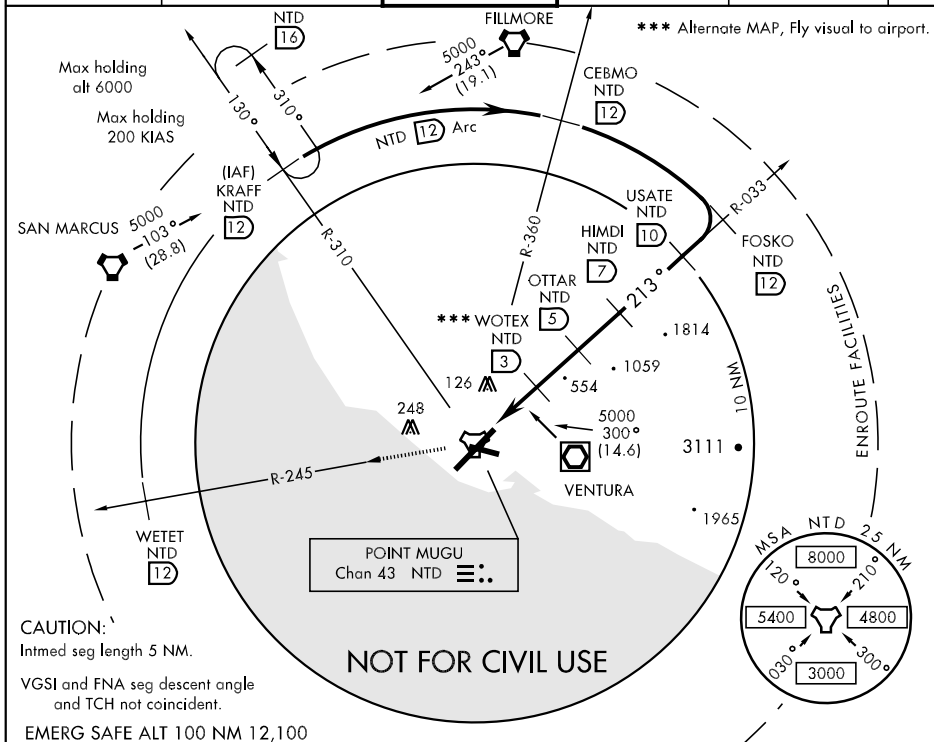
POINT MUGU NAS (NAVAL BASE VENTURA CO) (KNTD)

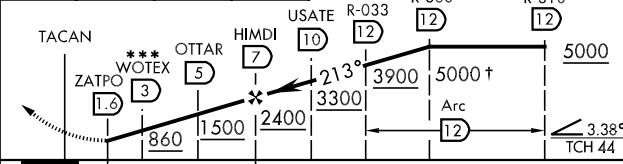
▼ * When ALS inop, increase vis CAT ABC to 1 mile, CAT D to 1½ miles.
** Circling not authorized E of Rwy 3-21 or when alternate MAP Rwy 21 in use.

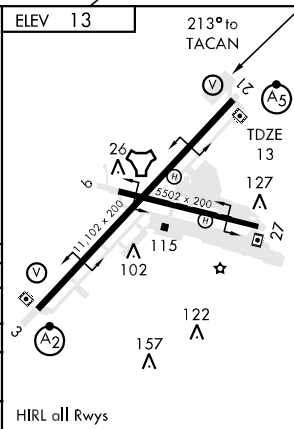


MISSED APPROACH: Climb to 5000 via NTD TACAN R-033 to NTD, then via NTD R-245 to WETET. Arc NW on NTD 12 DME arc to KRAFF and hold.

ATIS ★ 125.55 363.05	POINT MUGU APP CON 128.65 307.275	POINT MUGU TOWER ★ 124.85 290.375	GND CON 121.6 360.2	CLNC DEL 120.75 279.55	ASR/ PAR
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5000 NTD R-033	NTD 	WETET NTD 12	Arc NW to KRAFF	† Or as assigned.					
TACAN	ZATPO 1.6	*** WOTEX 3	OTTAR 5	HIMDI 7	USATE 10	FOSKO R-033 12	CEBMO R-360 12	KRAFF R-310 12	5000
									
CATEGORY	A		B		C		D		E
S-21 *	380-½ 367 (400-½)		380-¾ 367 (400-¾)		NA				
S-21 ***	860-2		847 (900-2)		NA				
CIRCLING **	420-1	480-1	480-1½	580-2	NA				
	407 (500-1)	467 (500-1)	467 (500-½)	567 (600-2)					
S-PAR 21	113-½		100 (100-½)		GS 3.0°				



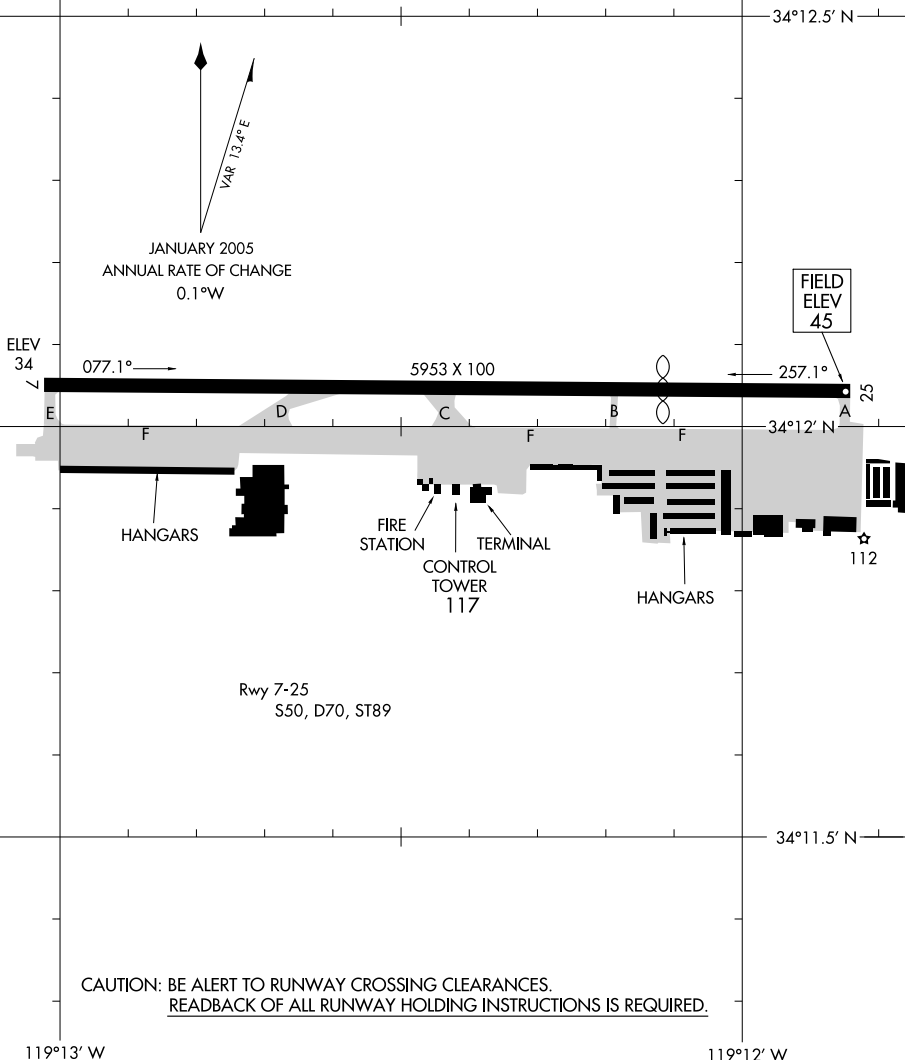
SW-3, 14 JAN 2010 to 11 FEB 2010

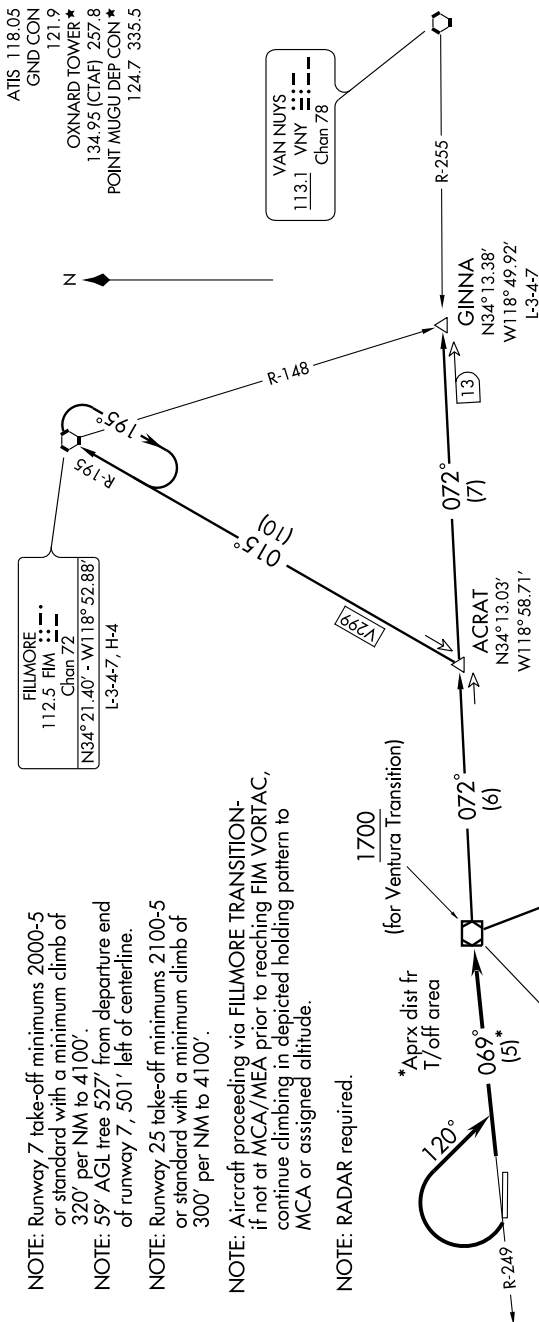
AIRPORT DIAGRAM

AL-674 (FAA)

OXNARD (OXR)
OXNARD, CALIFORNIA

ATIS 118.05
OXNARD TOWER ★
134.95 257.8
GND CON
121.9





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb to 8000 (or assigned altitude) via CMA R-249 to CMA VOR/DME. . . .

TAKE-OFF RUNWAY 25: Turn right heading 120° to intercept and climb to 8000 (or assigned altitude) via CMA R-249 to CMA VOR/DME. . . . thence via (assigned route) or (transition).

FILLMORE TRANSITION (CMA4.FIM): From over CMA VOR/DME via CMA R-072 to ACRAV INT then via FIM R-195 to FIM VORTAC.
GINNA TRANSITION (CMA4.GINNA): From over CMA VOR/DME via CMA R-072 to GINNA INT.
VENTURA TRANSITION (CMA4.VTU): From over CMA VOR/DME via CMA R-144 and VTU R-324 to VTU VOR/DME.

NOTE: Chart not to scale.

ILS RWY 25 OXNARD (OXR)

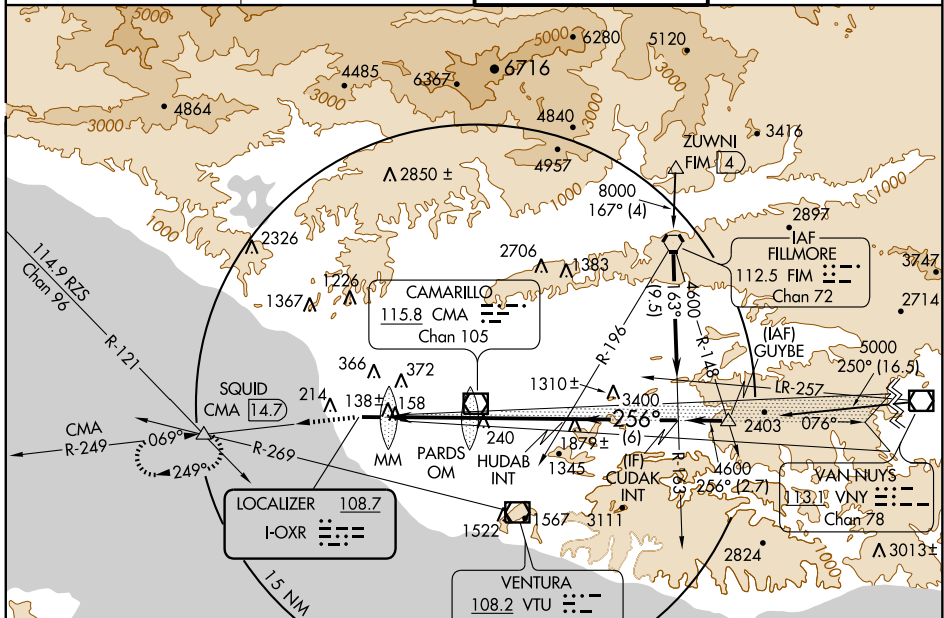
LOC I-OXR 108.7	APP CRS 256°	Rwy Idg 4576 TDZE 41 Apt Elev 45
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▼ Inoperative table does not apply.
▲ Visibility reduction by helicopters NA.
 Autopilot coupled approach NA below 867.
 When local altimeter not received, use Camarillo altimeter setting and increase DA to 309 feet.

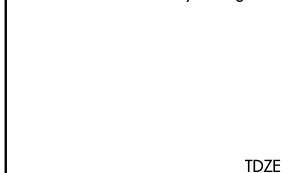
MALSR

MISSED APPROACH: Climb to 2000 via CMA VOR/DME R-249 to SQUID INT/CMA 14.7 DME and hold.

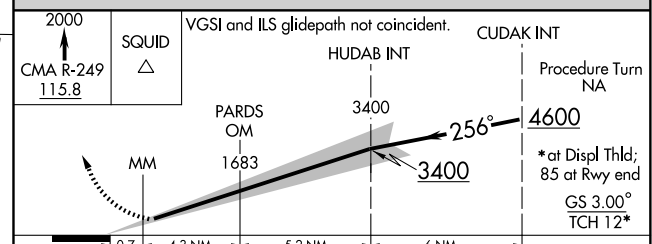
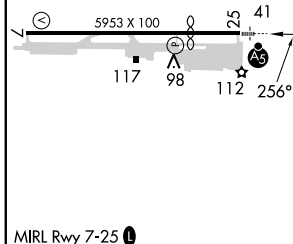
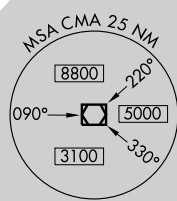
ATIS 118.05	POINT MUGU APP CON ★ 124.7 335.5	OXNARD TOWER ★ 134.95 (CTAF) 0 257.8	GND CON 121.9
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ELEV 45	Rwy 25 Idg 4576'
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Procedure NA for arrivals on FIM VORTAC airway radials 148 CW 195.
 When GS not used, use LOC Rwy 25 procedure.



MIRL Rwy 7-25	CATEGORY	A	B	C	D
Knots 60 90 120 150 180	S-ILS 25	291-1 250 (300-1)			
Min:Sec					

LOC RWY 25

OXNARD (OXR)

LOC I-OXR 108.7	APP CRS 256°	Rwy Idg TDZE Apt Elev 4576 41 45
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⚠ Inoperative table does not apply.
⚠ Visibility reduction by helicopters NA.
 If local altimeter setting not received, use Camarillo
 altimeter setting and increase all MDAs 20 feet.



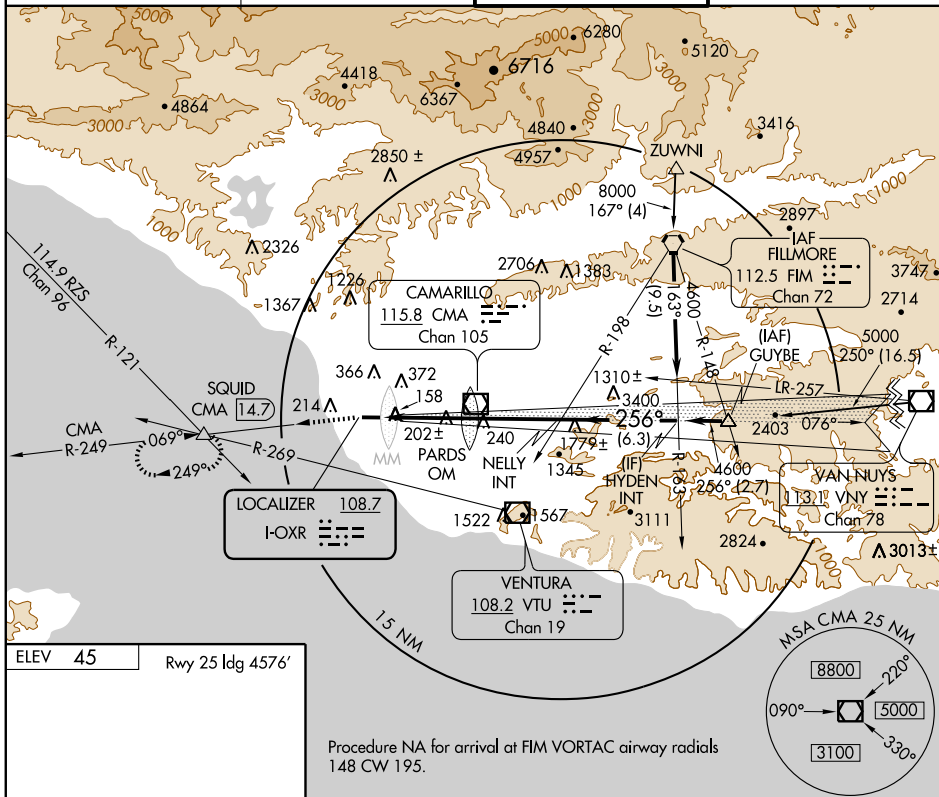
MISSED APPROACH: Climb to 2000 via CMA VOR/DME
 R-249 to SQUID INT/CMA 14.7 DME and hold.

ATIS
118.05

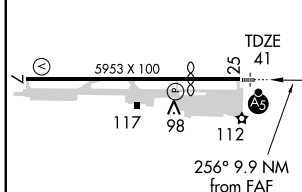
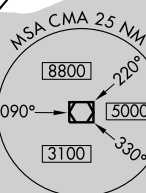
POINT MUGU APP CON ★
124.7 335.5

OXNARD TOWER ★
134.95 (CTAF) 0 257.8

GND CON
121.9

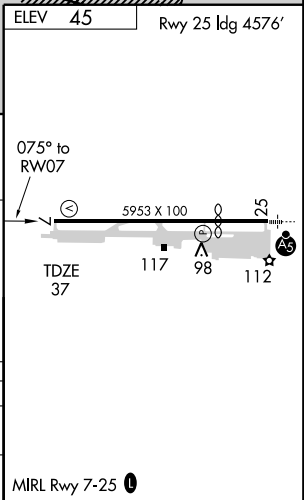
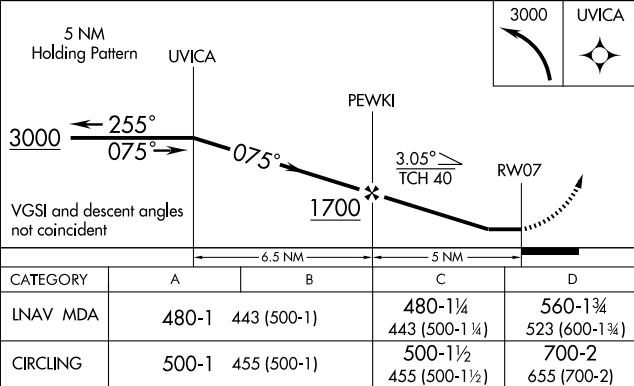
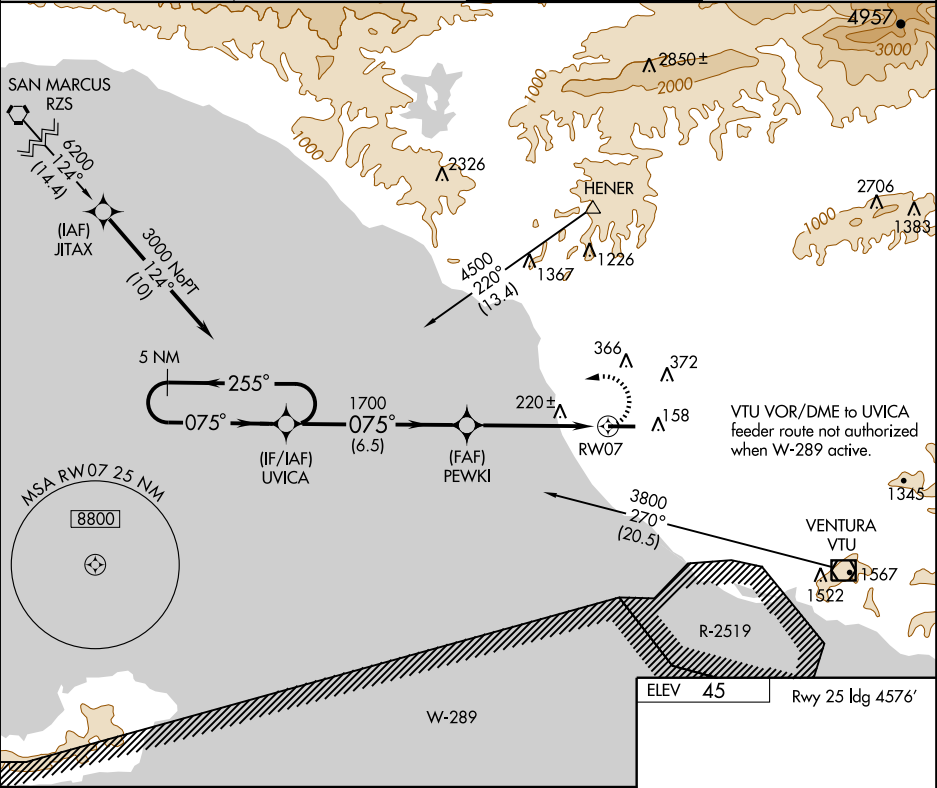


Procedure NA for arrival at FIM VORTAC airway radials
 148 CW 195.



	2000 CMA R-249 115.8	SQUID △	VGSI and descent angles not coincident.			
			PARDS OM	NELLY INT	HYDEN INT	4600
			3.14° TCH 55	3400	256°	
			1700			
			5 NM	4.9 NM	6.3 NM	
						Procedure Turn NA
MIRL Rwy 7-25						
FAF to MAP 9.9 NM						
Knots	60	90	120	150	180	
Min:Sec	9:54	6:36	4:57	3:58	3:18	
CATEGORY	A	B	C	D		
S-LOC 25	460-1	419 (500-1)	460-1¼	419 (500-1¼)		
CIRCLING	500-1	455 (500-1)	500-1½	700-2	655 (700-2)	

DME/DME RNP -0.3 NA.		MISSED APPROACH: Climbing left turn to 3000 direct UVICA and hold.	
ATIS 118.05	POINT MUGU APP CON* 124.7 335.5	OXNARD TOWER* 134.95 (CTAF) 257.8	GND CON 121.9



▼

▲

▼

Inoperative table does not apply. DME/DME RNP -0.3 NA.
Visibility reductions by helicopters NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (121°F).
If local altimeter setting not received, use Camarillo altimeter setting and increase LPV DA/MDAs 20 feet, and LNAV/VNAV DA 55 feet.
Baro-VNAV NA when using Camarillo altimeter setting.

MALSRL

MISSED APPROACH: Climb to 2000 direct PEWKI and via 239° track to SQUID and hold.

ATIS 118.05	POINT MUGU APP CON* 124.7 335.5	OXNARD TOWER* 134.95 (CTAF) 0 257.8	GND CON 121.9
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ELEV 45

Rwy 25 Idg 4576'

2000

PEWKI

239° track

SQUID

LNAV only

CUKUM 5 NM to RW25

VGSI and RNAV glidepath not coincident HUDAB

CUDAK

Procedure Turn NA

5953 X 100

117

98

112

256° to RW25

TDZE 41

256°

3400

1660#

5 NM

5.2 NM

6 NM

CATEGORY	A	B	C	D
LPV DA	412-1½ 371 (400-1½)			
LNAV/VNAV DA	452-1½ 411 (500-1½)			
LNAV MDA	460-1	419 (500-1)	460-1¼	419 (500-1¼)
CIRCLING	500-1	455 (500-1)	500-1½ 455 (500-1½)	700-2 655 (700-2)

MIRL Rwy 7-25

SW-3, 14 JAN 2010 to 11 FEB 2010



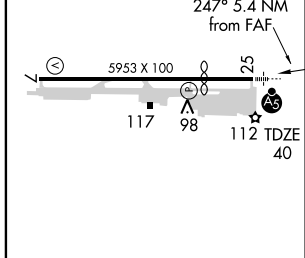
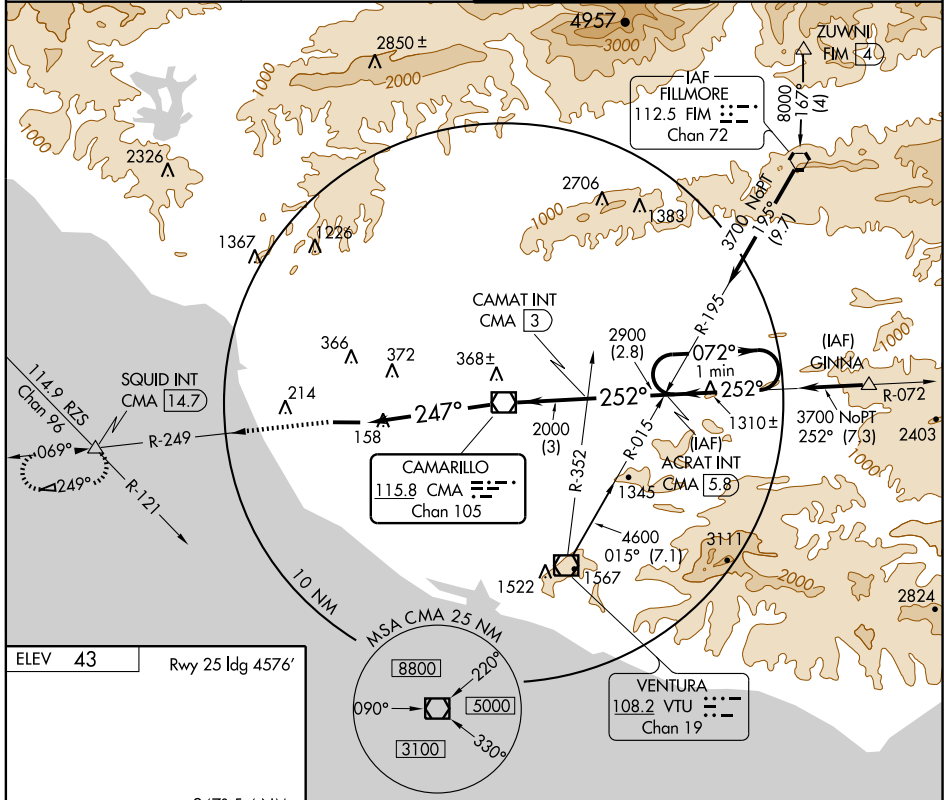
VOR RWY 25

OXNARD (OXR)

VOR/DME CMA	APP CRS	Rwy Idg	4576
115.8	247°	TDZE	40
Chan 105		Apt Elev	43

▼ Inoperative table does not apply.	MALSR 	MISSED APPROACH: Climb to 2000 via CMA R-249 to SQUID Int/CMA 14.7 DME and hold.
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ATIS 118.05	POINT MUGU APP CON* 124.7 335.5	OXNARD TOWER* 134.95 (CTAF) 0 257.8	GND CON 121.9
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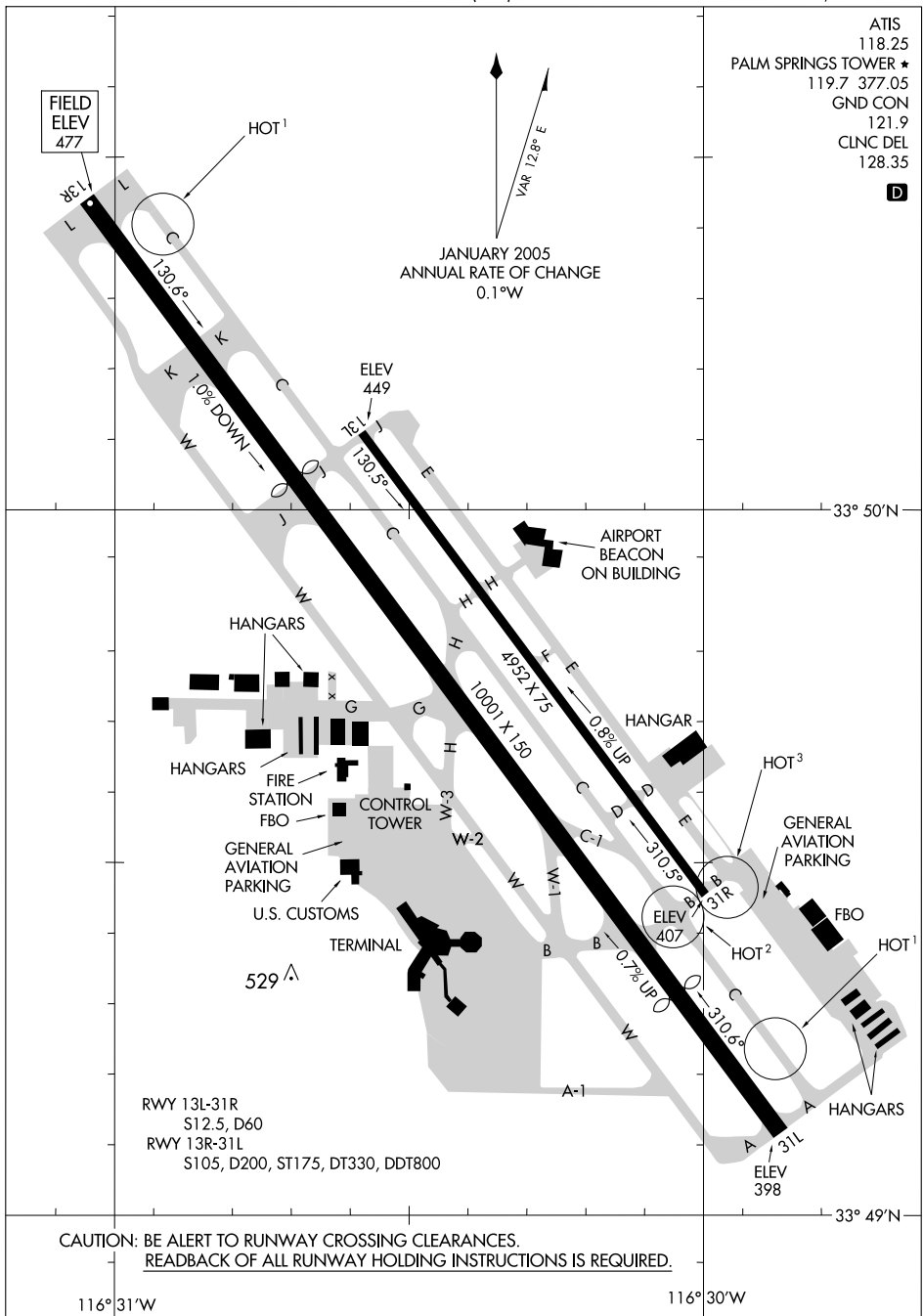


MIRL Rwy 7-25 0				
FAF to MAP 4.9 NM				
Knots	60	90	120	150
Min:Sec	4:54	3:16	2:27	1:58
				1:38
CATEGORY	A	B	C	D
S-25	480-1	440 (500-1)	480-1¼ 440 (500-1¼)	480-1½ 440 (500-1½)
CIRCLING	500-1	457 (500-1)	500-1½ 457 (500-1½)	700-2 657 (700-2)

AIRPORT DIAGRAM

AL-545 (FAA)

PALM SPRINGS INTL (PSP)
PALM SPRINGS, CALIFORNIA

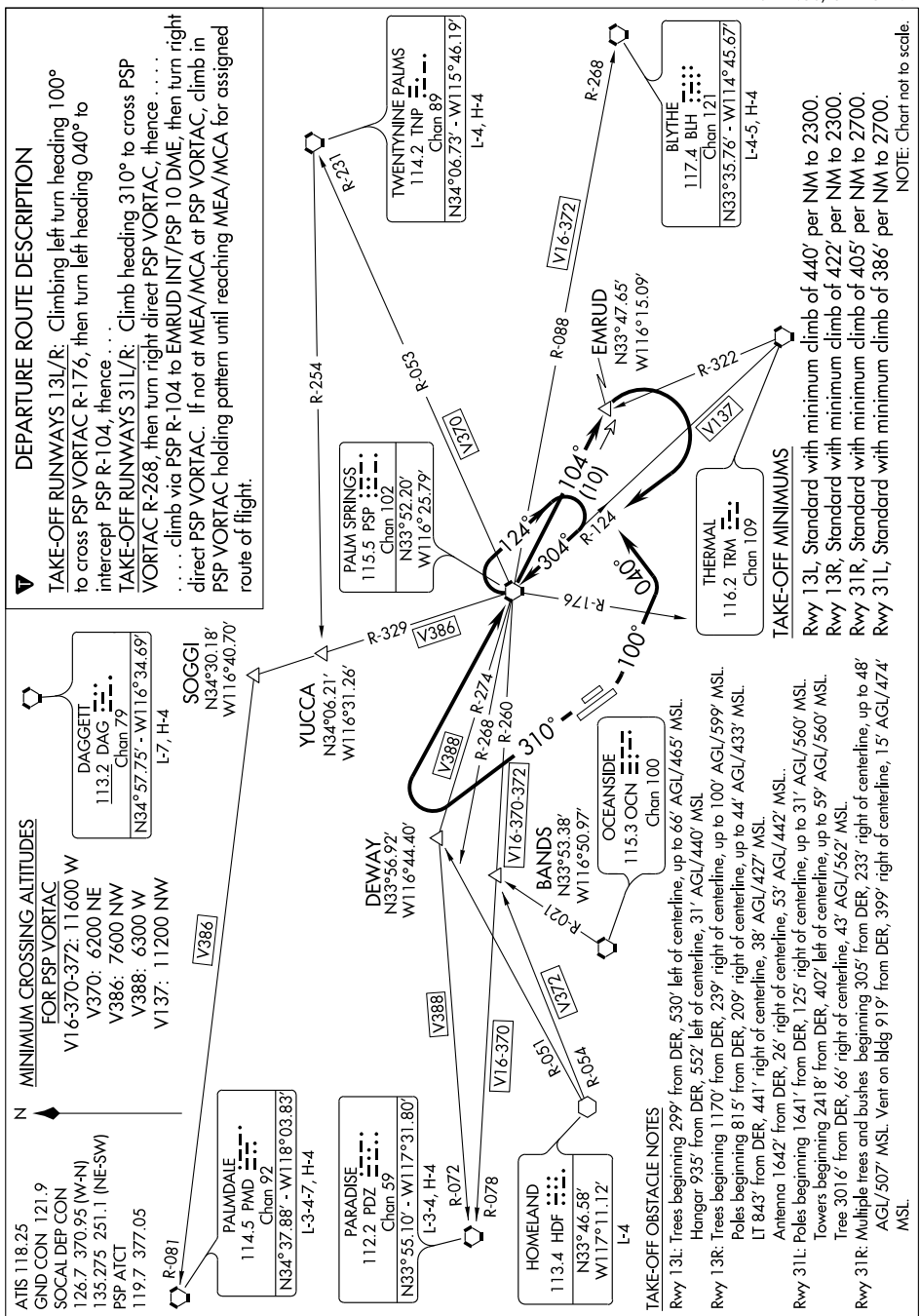


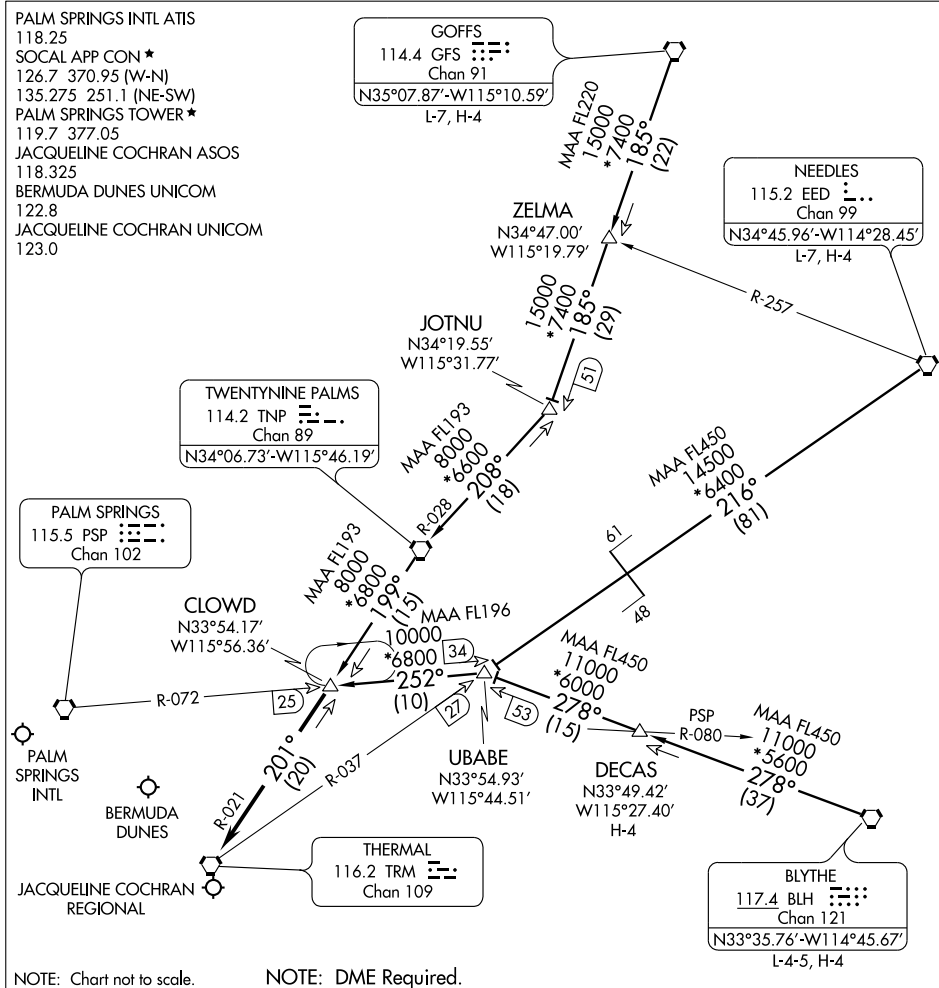
SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS
118.25
PALM SPRINGS TOWER ★
119.7 377.05
GND CON
121.9
CLNC DEL
128.35

D

CATHEDRAL ONE DEPARTURE





NOTE: Chart not to scale.

NOTE: DME Required.

BLYTHE TRANSITION (BLH.CLOUD1): From over BLH VORTAC via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

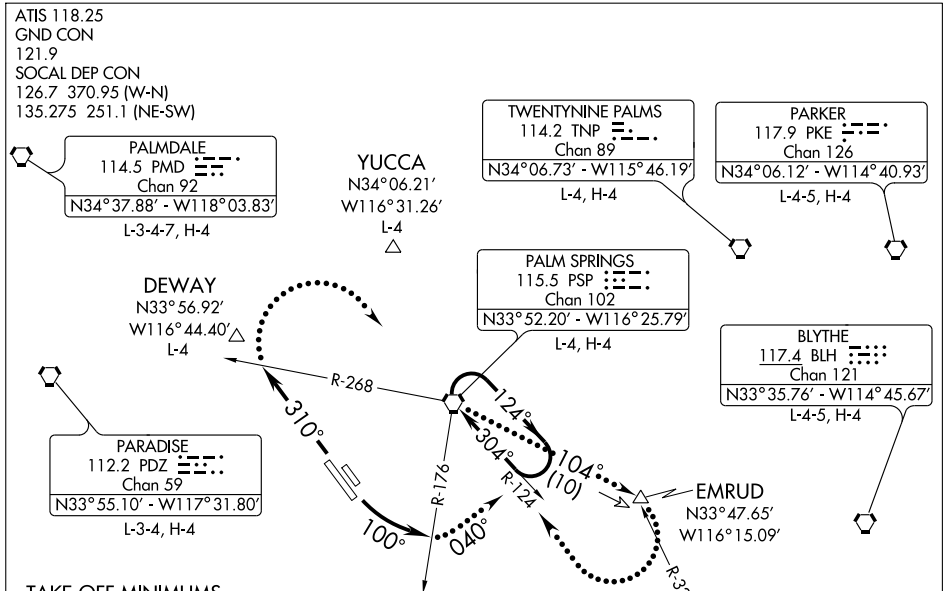
DECAS TRANSITION (DECAS.CLOUD1): From over DECAS INT via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

GOFFS TRANSITION (GFS.CLOUD1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 to CLOUD DME. Thence....

NEEDLES TRANSITION (EED.CLOUD1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to CLOUD DME. Thence....

....From over CLOUD DME via TRM R-021 to TRM VORTAC. Expect radar vectors to final approach course.

PALM SPRINGS FIVE DEPARTURE



TAKE-OFF MINIMUMS

Rwy 13R, 13L, 31R, 31L: Minimum climb of 450' per NM to 8000.

TAKE-OFF OBSTACLE NOTES

- Rwy 13L: Trees beginning 299' from DER, 530' left of centerline, up to 66' AGL/465' MSL.
Hangar 935' from DER, 552' left of centerline, 31' AGL/440' MSL.
- Rwy 13R: Trees beginning 1170' from DER, 239' right of centerline, up to 100' AGL/599' MSL.
Poles beginning 815' from DER, 209' right of centerline, up to 44' AGL/433' MSL.
LT 843' from DER, 441' right of centerline, 38' AGL/427' MSL.
Antenna 1642' from DER, 26' right of centerline, 53' AGL/442' MSL.
- Rwy 31L: Poles beginning 1641' from DER, 125' right of centerline, up to 31' AGL/550' MSL.
Towers beginning 2418' from DER, 402' left of centerline, up to 59' AGL/560' MSL.
Tree 3016' from DER, 66' right of centerline, 43' AGL/562' MSL.
- Rwy 31R: Trees beginning 787' from DER, 326' right of centerline, up to 48' AGL/507' MSL.
Multiple bushes beginning 305' from DER, 233' right of centerline, up to 3' AGL/462' MSL.
Vent on bldg 919' from DER, 399' right of centerline, 15' AGL/474' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Turn left heading 100°. Thence. . .

TAKE-OFF RUNWAYS 31L/R: Climb heading 310°. Thence. . .

. . . Maintain assigned altitude, expect vectors to appropriate route/fix, expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

RUNWAYS 13L/R: If no contact with ATC passing PSP R-176, climbing left turn heading 040° to intercept the PSP R-104. Thence. . .

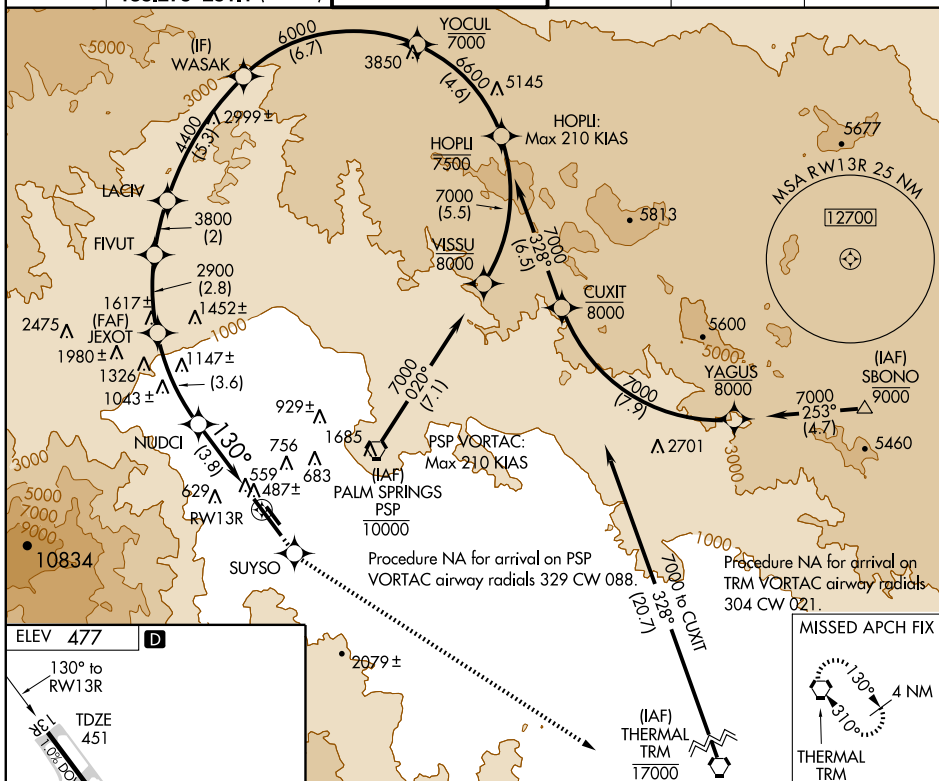
RUNWAYS 31L/R: If no contact with ATC passing PSP R-268; climbing right turn direct PSP VORTAC. Thence. . .

. . . Climb via PSP R-104 to EMRUD, then turn right direct PSP VORTAC. Then via assigned route.

RNAV (RNP) Y RWY 13R
PALM SPRINGS INTL (PSP)

MISSED APPROACH: Climb to 4000 direct SUYSO and 110° track to TRM VORTAC and hold.

ATIS 118.25	SOCAL APP CON ★ 126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	PALM SPRINGS TOWER ★ 119.7 (CTAF) 0 377.05	GND CON 121.9	CLNC DEL 128.35	UNICOM 122.95
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ELEV 477

MISSED APCH FIX

WASAK

6000
GP 3.00°
TCH 42

LACIV FIVUT JEXOT NUDCI RW13R

4400 3800 2900 1716

5.3 NM 2 NM 2.8 NM 3.6 NM 3.8 NM

130°

Procedure
Turn
NA

CATEGORY	A	B	C	D
RNP 0.17 DA*	728-1 277 (300-1)			
RNP 0.3 DA**	859-1½ 408 (400-1½)			
RNP 0.3 DA	1320-3 869 (900-3)			

HIRL Rwy 13R-31L **L**
MIRL Rwy 13L-31R
REIL Rwys 13L, 13R, 31L, and 31R

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

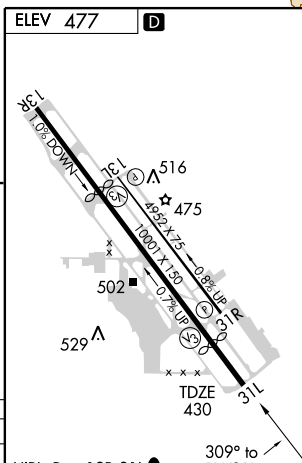
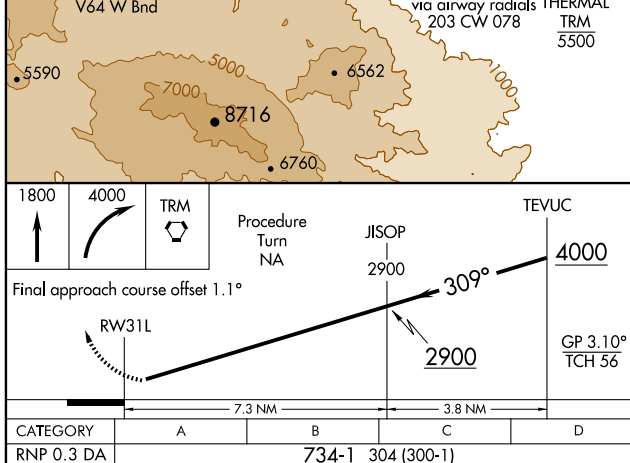
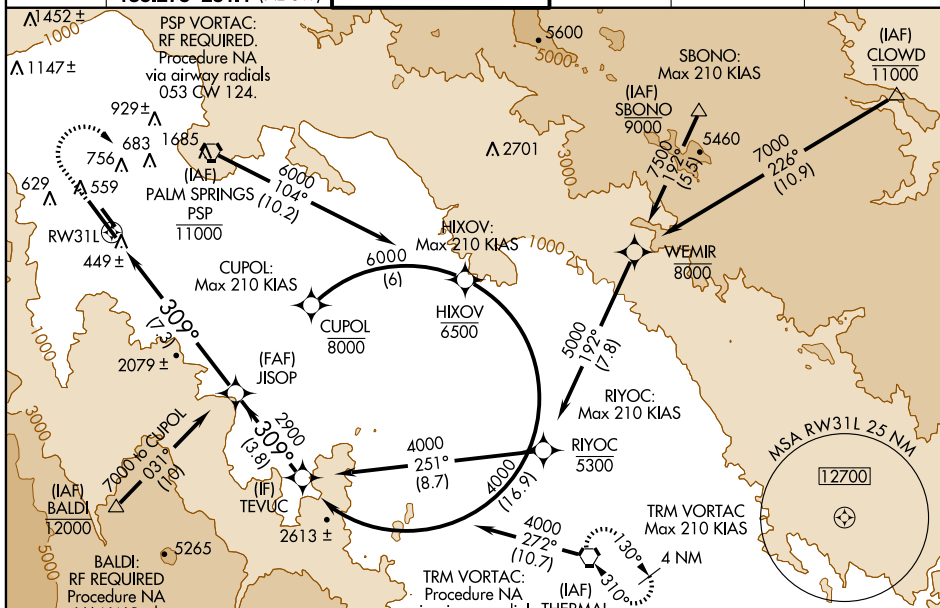
APP CRS 309°	Rwy Idg TDZE Apt Elev	8500 430 477
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RNAV (RNP) Y RWY 31L

PALM SPRINGS INTL (PSP)

GPS required. Procedure NA when control tower closed. For uncompensated Baro-VNAV systems, procedure NA below 2°C (35°F) or above 38°C (102°F). Missed approach requires minimum climb of 340' per NM to 3000. Visibility reduction by helicopters NA.	MISSED APPROACH: Climb to 1800, then climbing right turn to 4000 direct TRM VORTAC and hold.
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ATIS 118.25	SOCAL APP CON ★ 126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	PALM SPRINGS TOWER ★ 119.7 (CTAF) 0 377.05	GND CON 121.9	CLNC DEL 128.35	UNICOM 122.95
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CATEGORY	A	B	C	D
RNP 0.3 DA	734-1	304 (300-1)		
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED				
HIRL Rwy 13R-31L MIRL Rwy 13L-31R REIL Rws 13L, 13R, 31L, and 31R				

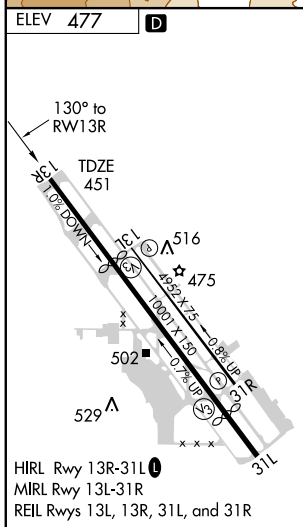
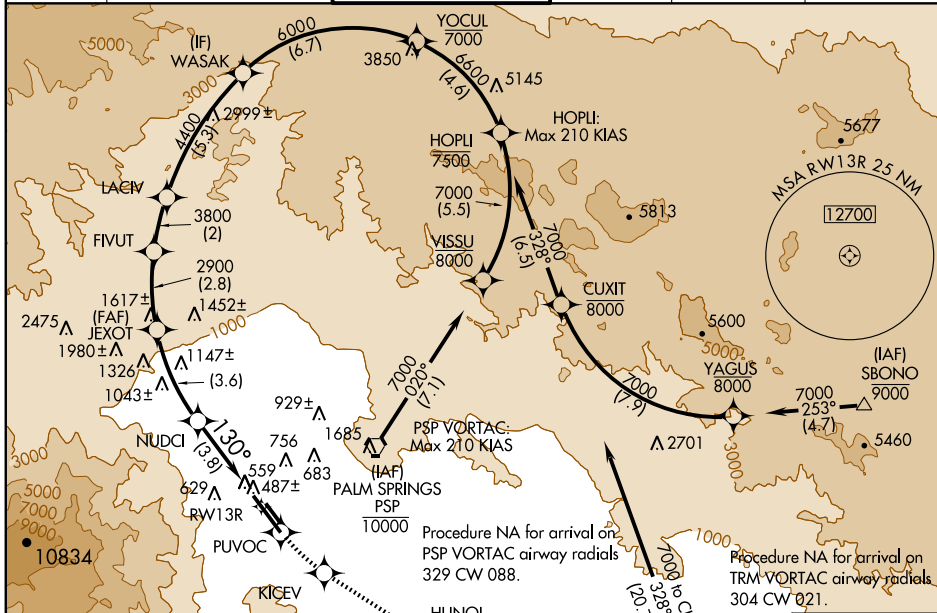
APP CRS	Rwy Idg	6857
130°	TDZE	451
	Apt Elev	477

RNAV (RNP) Z RWY 13R PALM SPRINGS INTL (PSP)

V RF and GPS required. Procedure NA when control tower closed.
NA For uncompensated Baro-VNAV systems, procedure NA below 2°C (35°F) or above 48°C (119°F).
 Missed approach requires RNP less than 1.0.

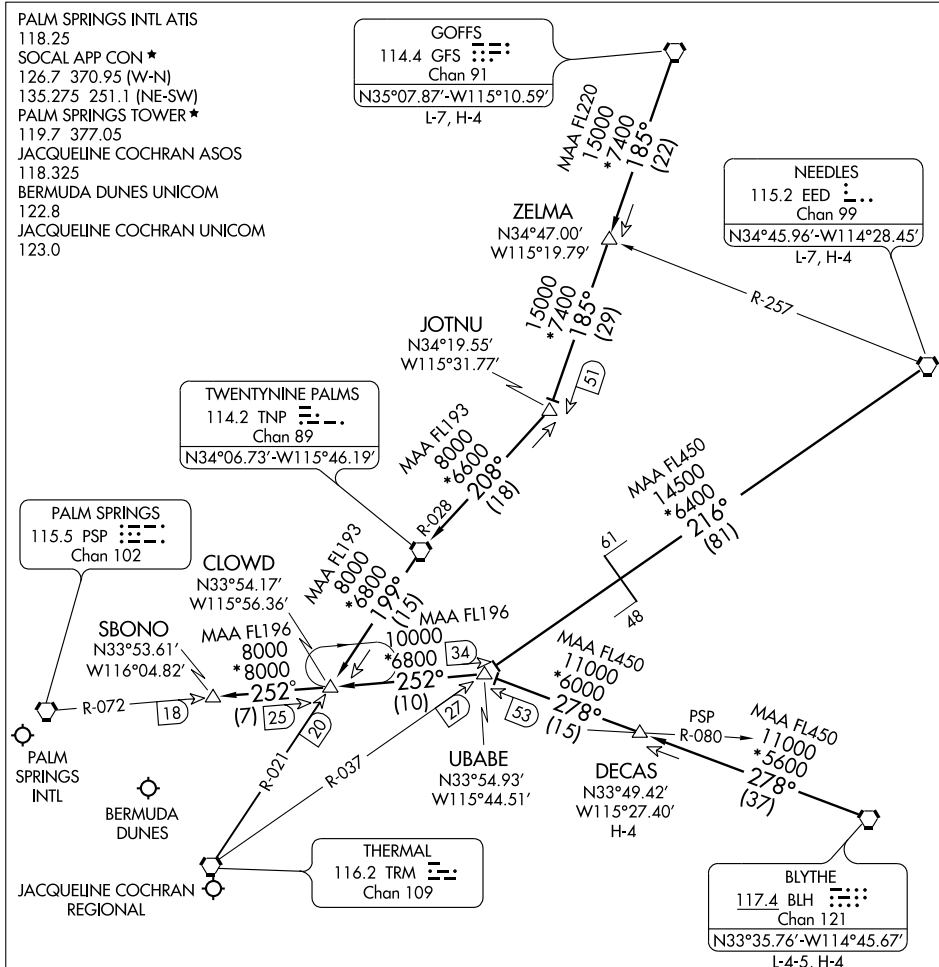
MISSED APPROACH: Climb to 4000 via 130° track to PUVOC, left radius turn to KICEV, 110° track to HUNOL, 110° track to TRM VORTAC and hold.

ATIS	SOCAL APP CON ★	PALM SPRINGS TOWER ★	GND CON	CLNC DEL	UNICOM
118.25	126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	119.7 (CTAF) 0 377.05	121.9	128.35	122.95



WASAK	LACIV	FIVUT	JEXOT	NUDCI	RWY 13R	Procedure Turn NA
6000	4400	3800	2900	1716	130°	
GP 3.00° TCH 42	5.3 NM	2 NM	2.8 NM	3.6 NM	3.8 NM	
CATEGORY	A	B	C	D		
RNP 0.17 DA	728-1	277 (300-1)				
RNP 0.3 DA	859-1½	408 (400-1½)				

**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**



SW-3. 14 JAN 2010 to 11 FEB 2010

BLYTHE TRANSITION (BLH.SBONO1): From over BLH VORTAC via BLH R-278 and PSP R-072 to SBONO DME. Thence....

DECAS TRANSITION (DECAS.SBONO1): From over DECAS INT via BLH R-278 and PSP R-072 to SBONO DME. Thence....

GOFFS TRANSITION (GFS.SBONO1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 and PSP R-072 to SBONO DME. Thence....

NEEDLES TRANSITION (EED.SBONO1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to SBONO DME. Thence....

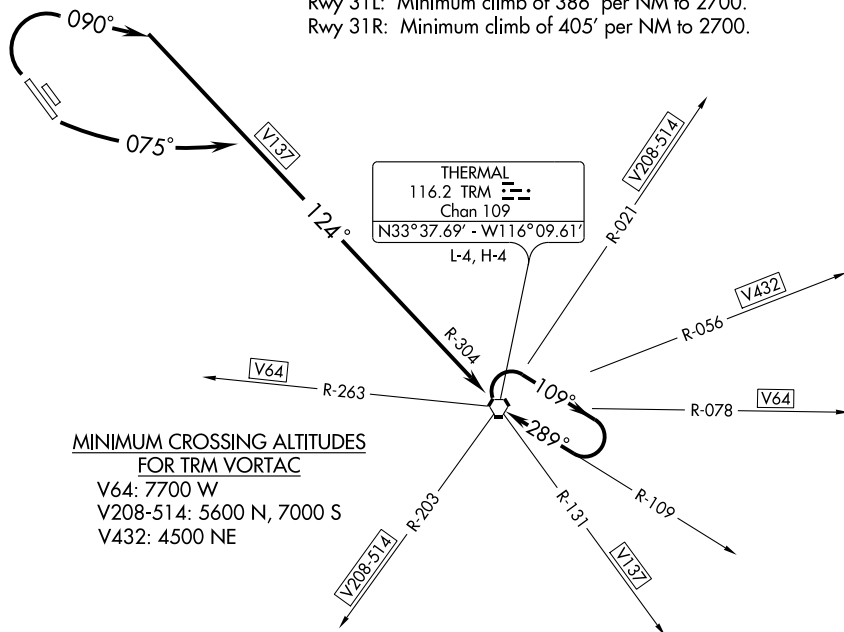
....From over SBONO DME expect radar vectors to final approach course.

THERMAL SIX DEPARTURE

ATIS 118.25
GND CON
121.9
SOCAL DEP CON
126.7 370.95 (W-N)
135.275 251.1 (NE-SW)

TAKE-OFF MINIMUMS

Rwy 13L: Minimum climb of 440' per NM to 2300.
Rwy 13R: Minimum climb of 422' per NM to 2300.
Rwy 31L: Minimum climb of 386' per NM to 2700.
Rwy 31R: Minimum climb of 405' per NM to 2700.



TAKE-OFF OBSTACLE NOTES

Rwy 13L: Trees beginning 299' from DER, 530' left of centerline, up to 66' AGL/465' MSL.
Hangar 935' from DER, 552' left of centerline, 31' AGL/440' MSL.

Rwy 13R: Trees beginning 1170' from DER, 239' right of centerline, up to 100' AGL/599' MSL.
Poles beginning 815' from DER, 209' right of centerline, up to 44' AGL/433' MSL.
LT 843' from DER, 441' right of centerline, 38' AGL/427' MSL.
Antenna 1642' from DER, 26' right of centerline, 53' AGL/442' MSL.

Rwy 31L: Poles beginning 1641' from DER, 125' right of centerline, up to 31' AGL/550' MSL.
Towers beginning 2418' from DER, 402' left of centerline, up to 59' AGL/560' MSL.
Tree 3016' from DER, 66' right of centerline, 43' AGL/562' MSL.

Rwy 31R: Trees beginning 787' from DER, 326' right of centerline, up to 48' AGL/507' MSL.
Multiple bushes beginning 305' from DER, 233' right of centerline, up to 3' AGL/462' MSL.
Vent on bldg 919' from DER, 399' right of centerline, 15' AGL/474' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Climbing left turn heading 075° to intercept TRM R-304 to TRM VORTAC. Thence

TAKE-OFF RUNWAYS 31L/R: Climb heading 090° to intercept TRM R-304 to TRM VORTAC. Thence

. . . .If not at MEA/MCA at TRM VORTAC, climb in TRM holding pattern until reaching the MEA/MCA for assigned route of flight.

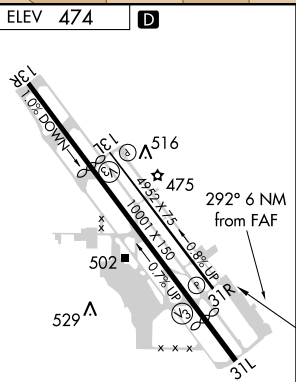
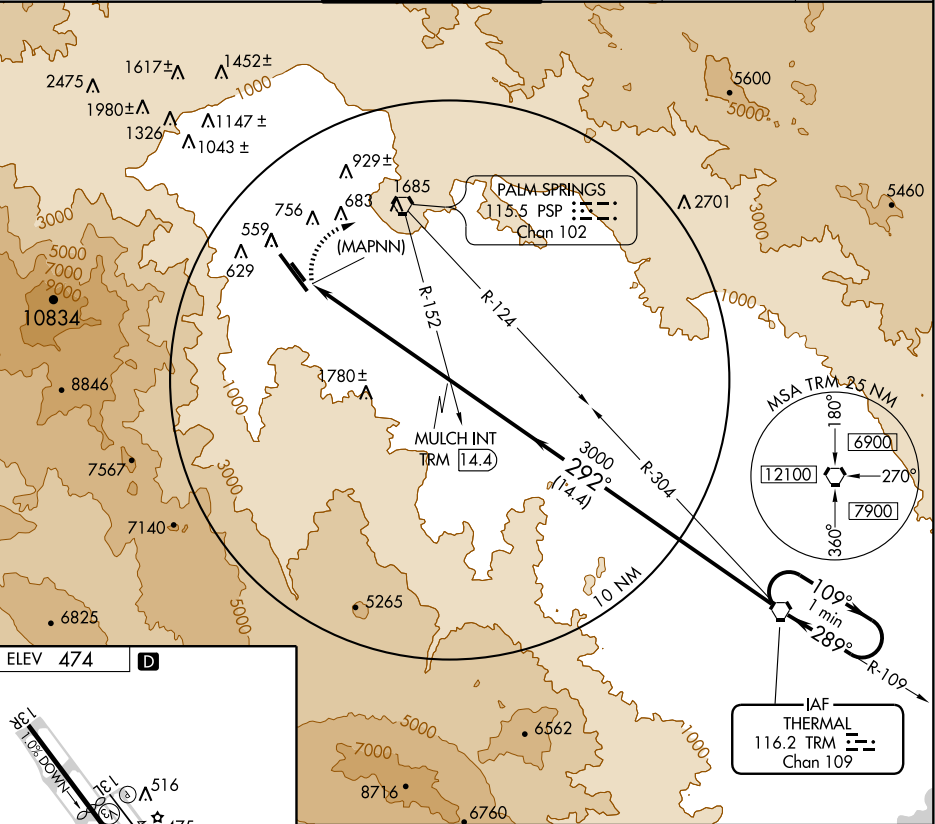
VORTAC TRM	APP CRS	Rwy Idg TDZE	N/A
116.2	292°		N/A
Chan 109		Apt Elev	474

VOR or GPS-B
PALM SPRINGS INTL (PSP)

Circling not authorized southwest of Rwy 13R-31L.

MISSED APPROACH: Climbing right turn to 4000 direct PSP VORTAC then via PSP R-124 and TRM R-304 to TRM VORTAC and hold.

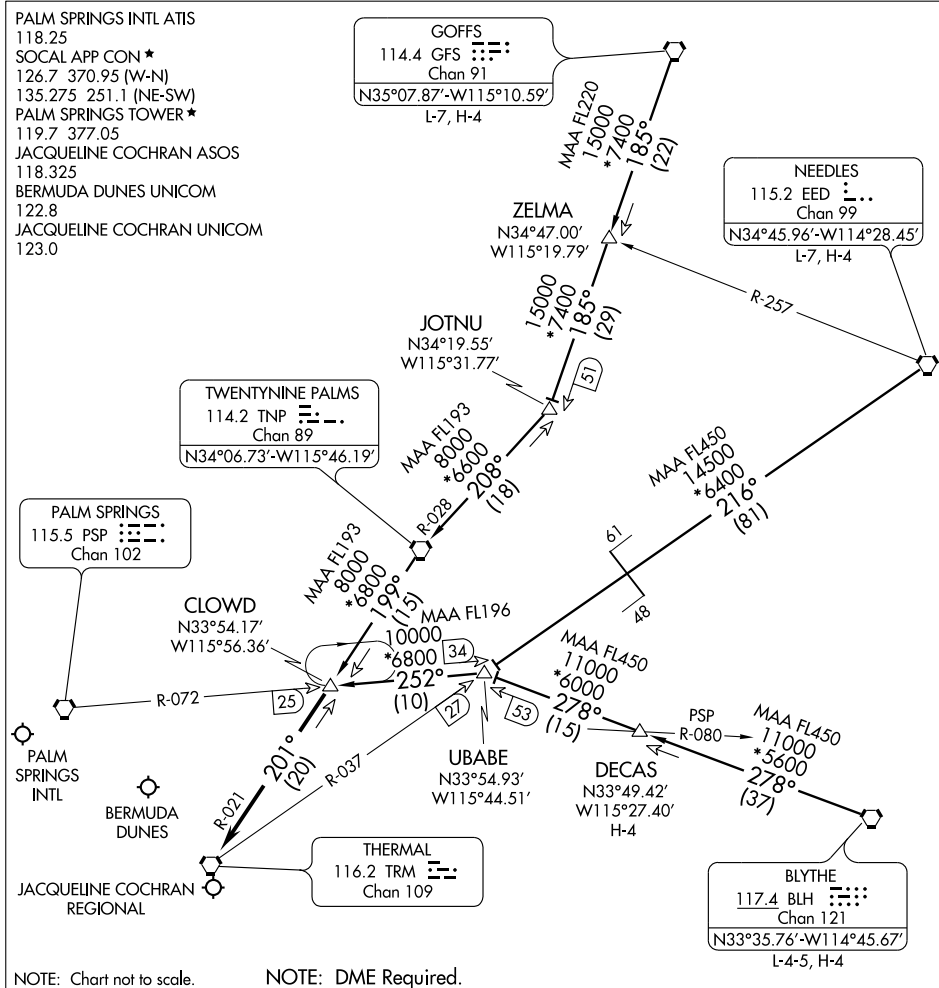
ATIS 118.25	SOCAL APP CON ★ 126.7 370.95 (W-N) 135.275 251.1 (NE-SW)	PALM SPRINGS TOWER ★ 119.7 (CTAF) 377.05	GND CON 121.9	CLNC DEL 128.35	UNICOM 122.95
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HIRL Rwy 13R-31L
MRL Rwy 13L-31R
REIL Rws 13L, 13R, 31L, and 31R

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

4000	PSP 115.5	PSP R-124 115.5	TRM R-304 116.2	TRM 116.2	VORTAC One Minute Holding Pattern
(MAPNN) TRM 20.4	MULCH INT TRM 14.4	3000	109° → ← 289°	4000	
6 NM	14.4 NM				
CATEGORY	A	B	C	D	
CIRCLING	2300-1¼ 1826 (1900-1¼)	2300-1½ 1826 (1900-1½)	2300-3	1826 (1900-3)	



NOTE: Chart not to scale.

NOTE: DME Required.

BLYTHE TRANSITION (BLH.CLOUD1): From over BLH VORTAC via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

DECAS TRANSITION (DECAS.CLOUD1): From over DECAS INT via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

GOFFS TRANSITION (GFS.CLOUD1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 to CLOUD DME. Thence....

NEEDLES TRANSITION (EED.CLOUD1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to CLOUD DME. Thence....

....From over CLOUD DME via TRM R-021 to TRM VORTAC. Expect radar vectors to final approach course.

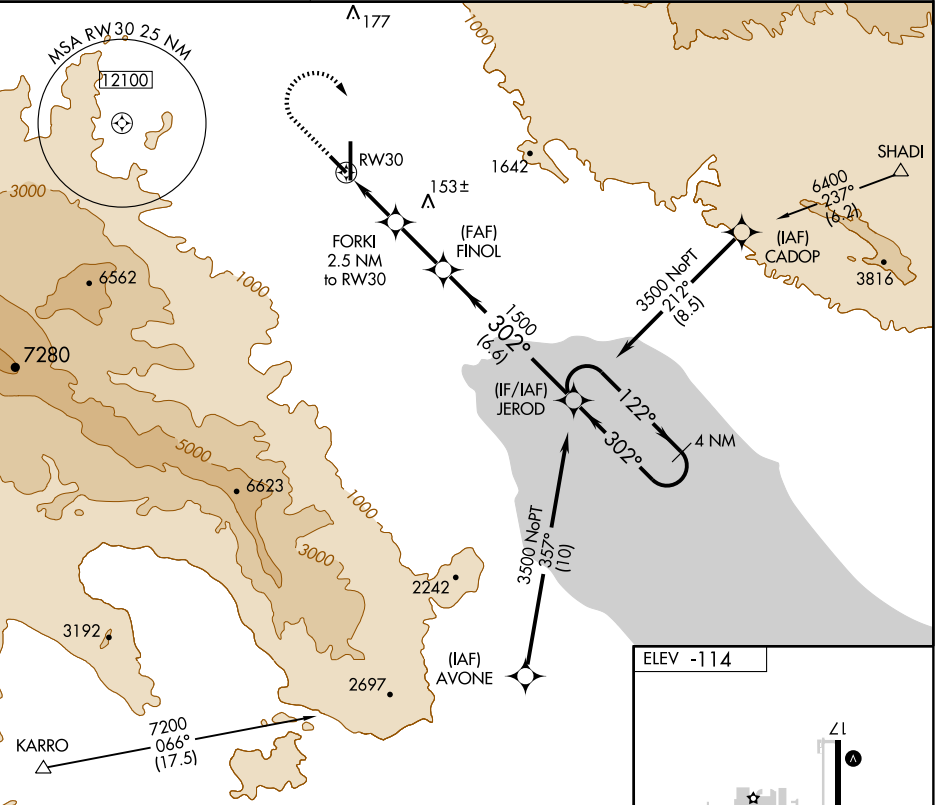
APP CRS 302°	Rwy Idg TDZE -121 Apt Elev -114
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RNAV (GPS) RWY 30

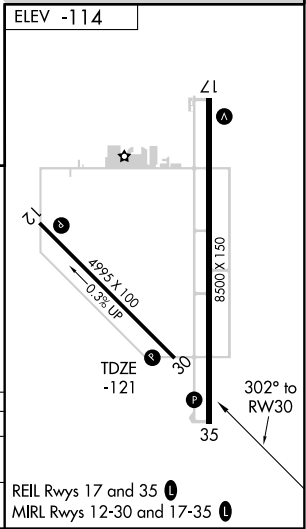
PALM SPRINGS/ JACQUELINE COCHRAN RGNL (TRM)

NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 direct JEROD WP and hold.
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ASOS 118.325	SOCAL APP CON ★ 135.275 251.1	UNICOM 123.0 (CTAF) L
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1000	3500	JEROD	4 NM Holding Pattern
↑	↻	✧	
1.1 NM to RW30	1.1 NM to RW30	2.5 NM to RW30	2.4 NM
720	1500	302°	122°
1.1	1.4 NM	2.4 NM	6.6 NM
CATEGORY	A	B	C
LNAV MDA	260-1	374 (400-1)	260-1 1/4
CIRCLING	320-1	340-1	340-1 1/2
	434 (500-1)	454 (500-1)	454 (500-1 1/2)



APP CRS
336°

Rwy Idg
TDZE
Apt Elev

8500
-124
-114

RNAV (GPS) RWY 35

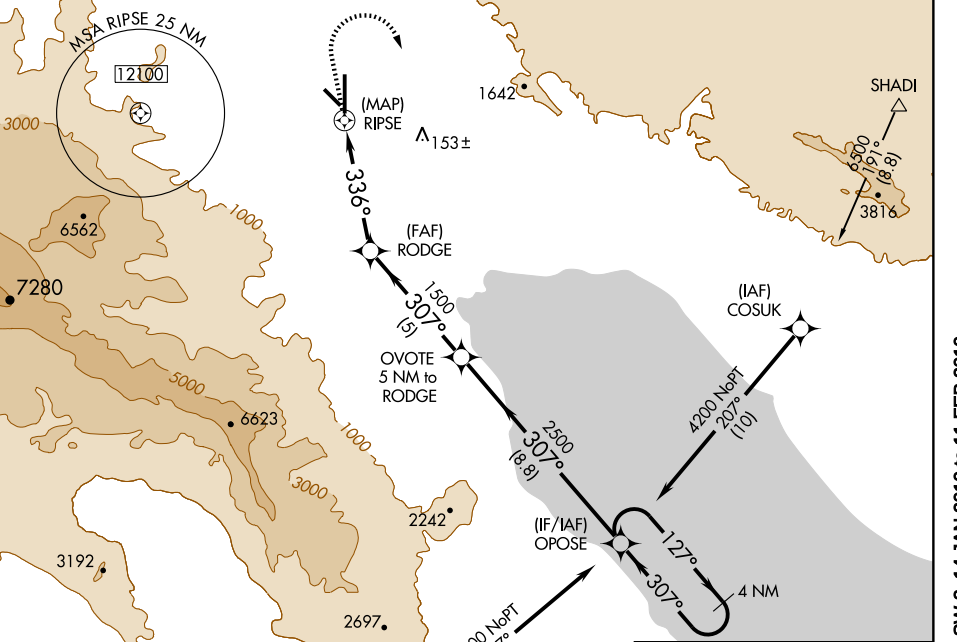
PALM SPRINGS/ JACQUELINE COCHRAN RGNL (TRM)

NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1350 then climbing right turn to 4200 direct OPOSE WP and hold.

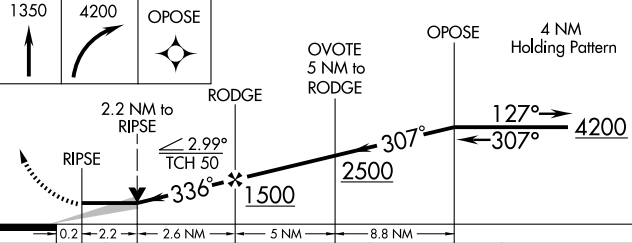
ASOS 118.325	SOCAL APP CON★ 135.275 251.1	UNICOM 123.0 (CTAF) 0
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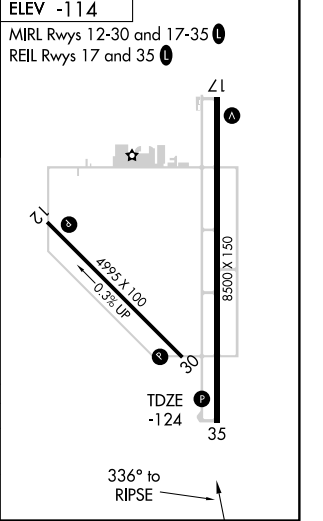
ELEV -114

MIRL Rwy 12-30 and 17-35

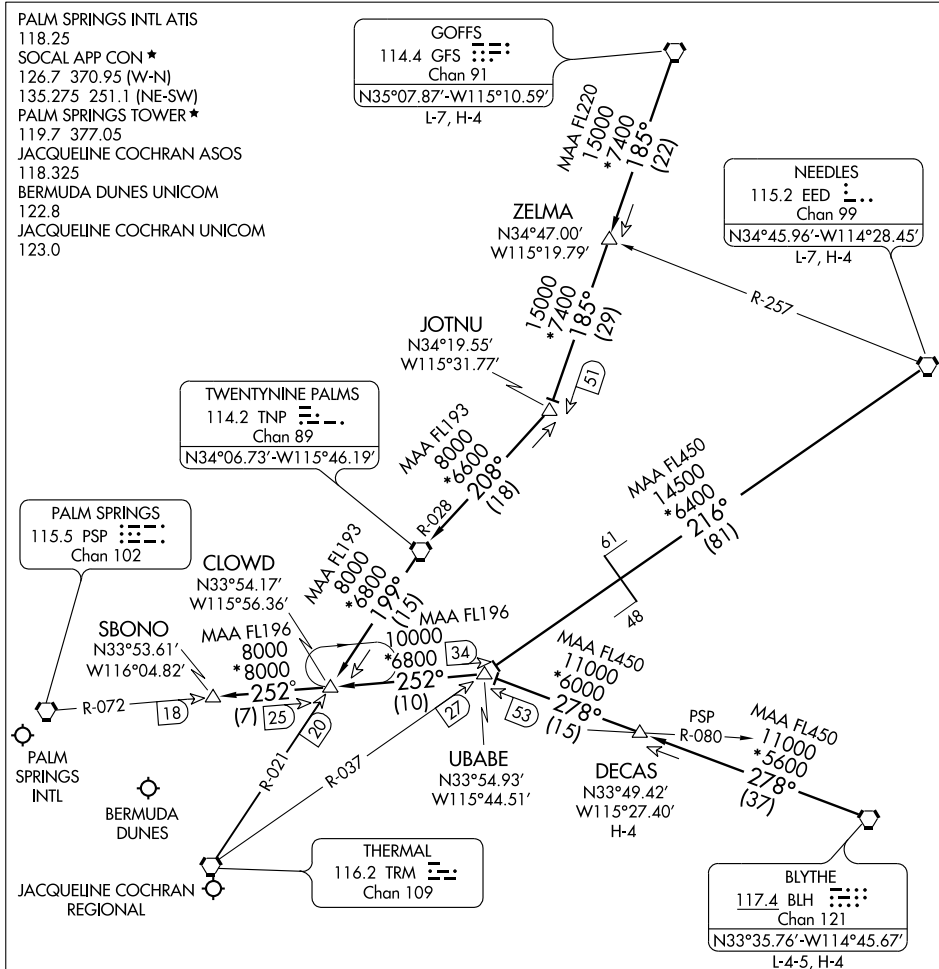
REIL Rwy 17 and 35



CATEGORY	A	B	C	D
RNAV MDA	700-1 824 (900-1)	700-1¼ 824 (900-1¼)	700-2½ 824 (900-2½)	700-2¾ 824 (900-2¾)
CIRCLING	700-1 814 (900-1)	700-1¼ 814 (900-1¼)	700-2½ 814 (900-2½)	700-2¾ 814 (900-2¾)



SW-3, 14 JAN 2010 to 11 FEB 2010



SW-3. 14 JAN 2010 to 11 FEB 2010

BLYTHE TRANSITION (BLH.SBONO1): From over BLH VORTAC via BLH R-278 and PSP R-072 to SBONO DME. Thence....

DECAS TRANSITION (DECAS.SBONO1): From over DECAS INT via BLH R-278 and PSP R-072 to SBONO DME. Thence....

GOFFS TRANSITION (GFS.SBONO1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 and PSP R-072 to SBONO DME. Thence....

NEEDLES TRANSITION (EED.SBONO1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to SBONO DME. Thence....

....From over SBONO DME expect radar vectors to final approach course.

VORTAC TRM 116.2 Chan 109	APP CRS 316°	Rwy Idg 4995 TDZE -121 Apt Elev -114
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VOR/DME RWY 30

PALM SPRINGS/ JACQUELINE COCHRAN RGNL (TRM)

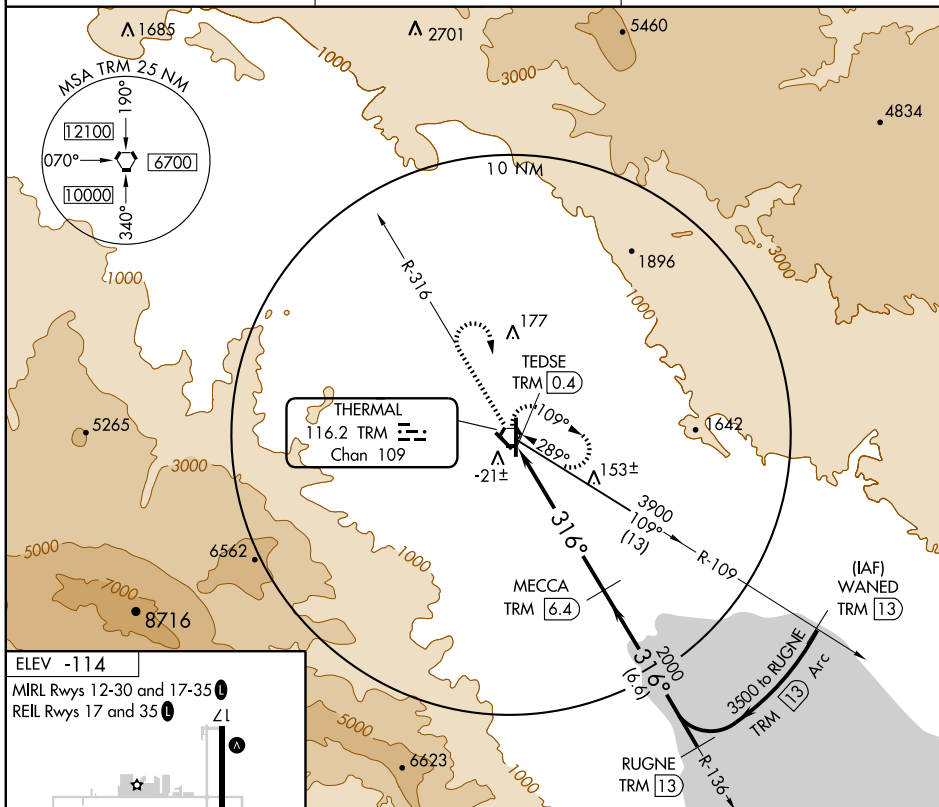
T	
A	NA

MISSED APPROACH: Climb to 1300 via TRM R-316 then climbing right turn to 3000 direct TRM VORTAC and hold.

ASOS
118.325

SOCAL APP CON★
135,275 251.1

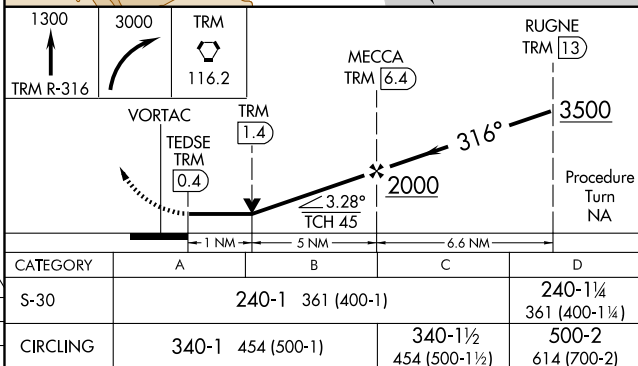
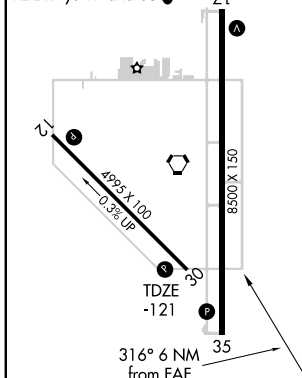
UN|COM
123.0 (CTAF) **L**

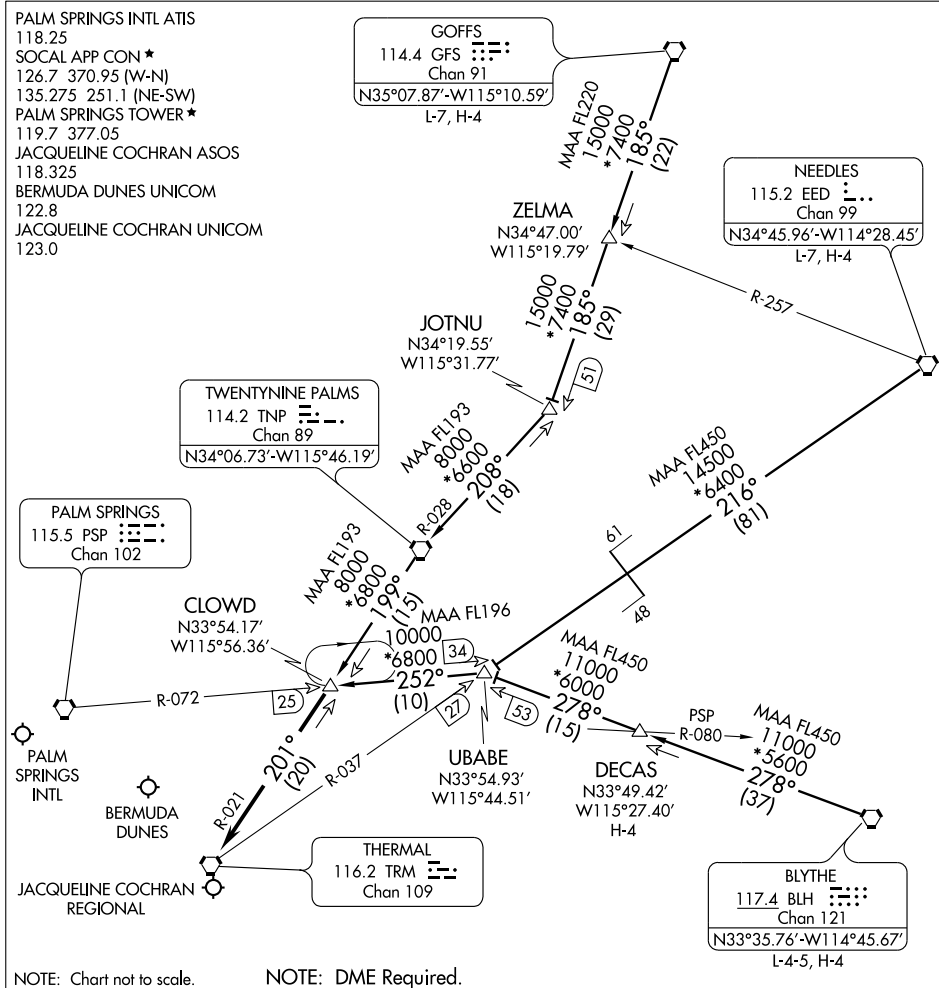


ELEV -114

MIRL Rwy 12-30 and 17-35 **L**

REIL Rwys 17 and 35 L





NOTE: Chart not to scale.

NOTE: DME Required.

BLYTHE TRANSITION (BLH.CLOUD1): From over BLH VORTAC via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

DECAS TRANSITION (DECAS.CLOUD1): From over DECAS INT via BLH R-278 and PSP R-072 to CLOUD DME. Thence....

GOFFS TRANSITION (GFS.CLOUD1): From over GFS VORTAC via GFS R-185 and TNP R-028 to TNP VORTAC, then via TNP R-199 to CLOUD DME. Thence....

NEEDLES TRANSITION (EED.CLOUD1): From over EED VORTAC via EED R-216 and TRM R-037 to UBABE DME, then via PSP R-072 to CLOUD DME. Thence....

....From over CLOUD DME via TRM R-021 to TRM VORTAC. Expect radar vectors to final approach course.

APP CRS	Rwy Idg	5002
102°	TDZE	73
	Apt Elev	73

RNAV (GPS) RWY 10

PALM SPRINGS/ BERMUDA DUNES (UDD)

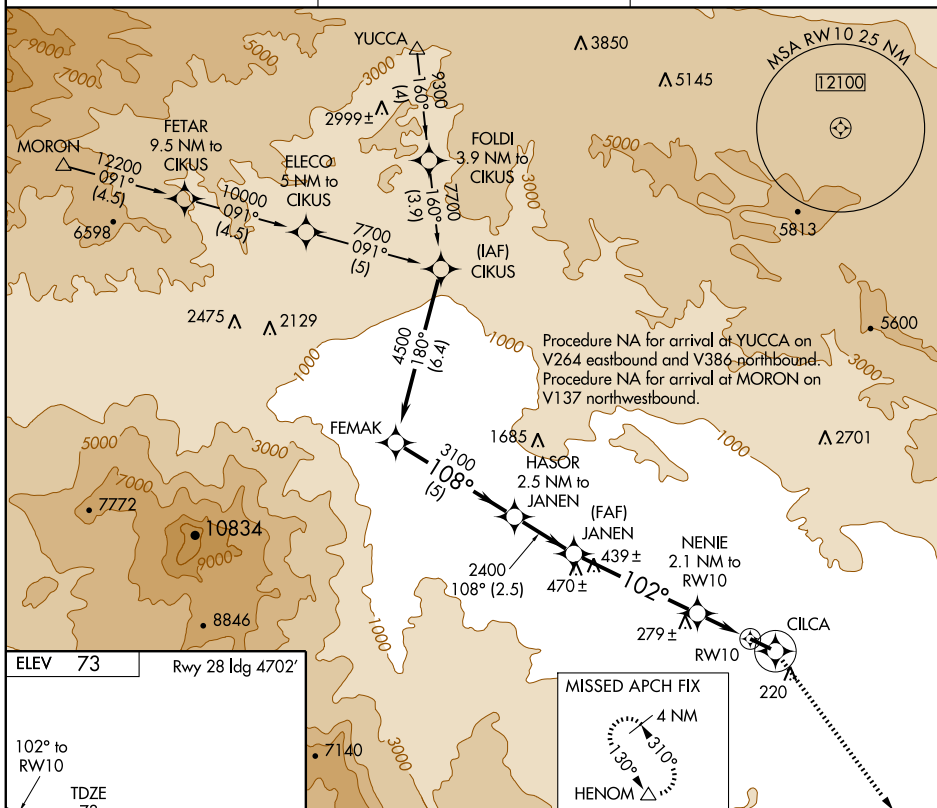


GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
Use Jacqueline Cochran Rgnl altimeter setting.

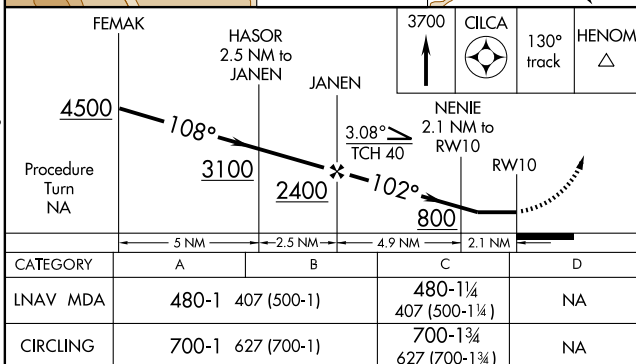
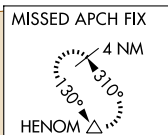
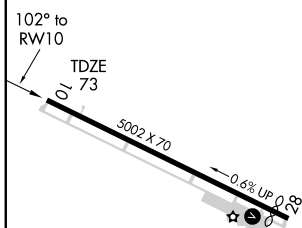
MISSED APPROACH: Climb to 3700 direct CILCA and via 130° track to HENOM and hold.

JACQUELINE COCHRAN REGIONAL ASOS
118.325

SOCAL APP CON ★
135.275 251.1

UNICOM
122.8 (CTAF) **L**

ELEV 73	Rwy 28 ldg 4702'
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REIL Rwy 28
LIRL Rwy 10-28 **L**

SW-3. 14 JAN 2010 to 11 FEB 2010

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Use Jacqueline Cochran Rgnl altimeter setting.

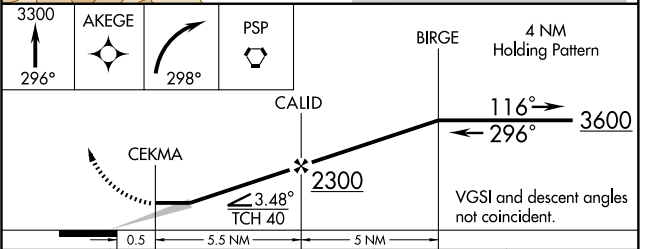
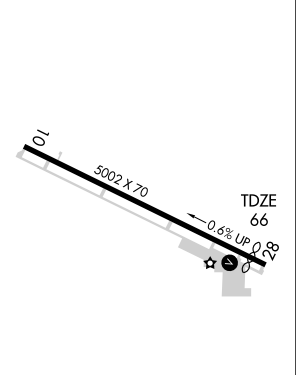
MISSED APPROACH: Climb to 3300 via course 296° to AKEGE WP then right turn via course 298° to PSP VORTAC and hold.

JACQUELINE COCHRAN REGIONAL ASOS 118.325	SOCAL APP CON ★ 135.275 251.1	UNICOM 122.8 (CTAF) 0
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ELEV 73

Rwy 28 Idg 4702'



CATEGORY	A	B	C	D
LNNAV MDA	1020-1¼ 954 (1000-1¼)	1020-1½ 954 (1000-1½)	1020-3 954 (1000-3)	NA
CIRCLING	1020-1¼ 947 (1000-1¼)	1020-1½ 947 (1000-1½)	1020-3 947 (1000-3)	NA

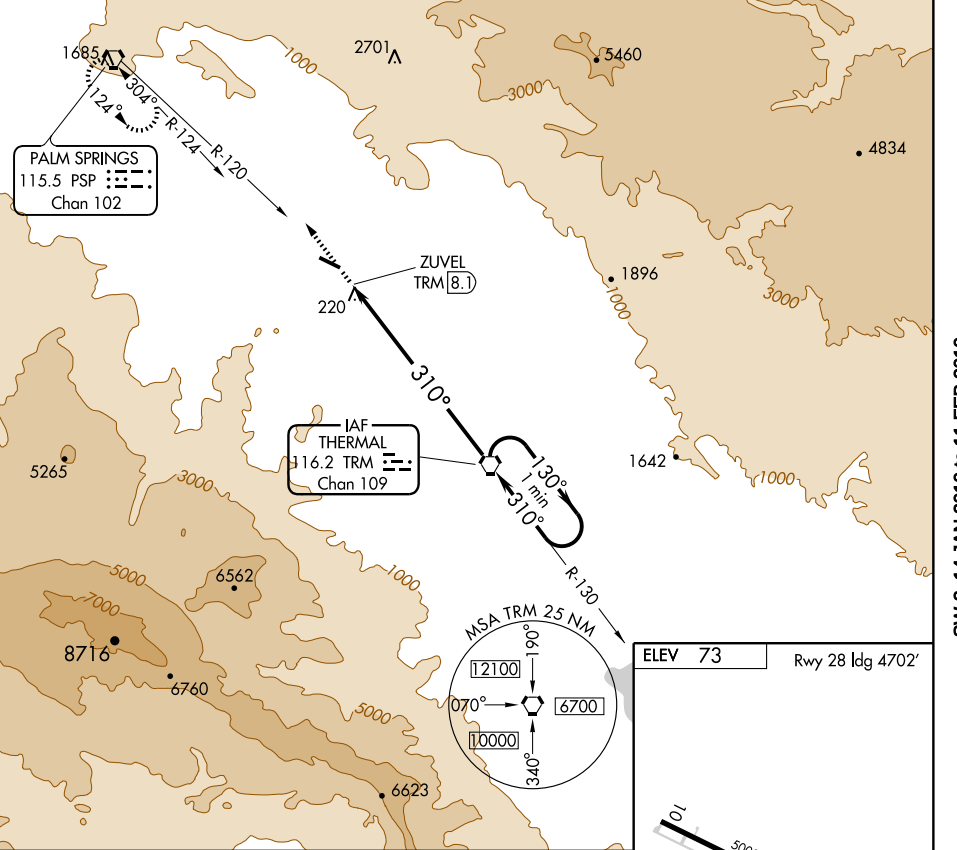
V

NA

Use Jacqueline Cochran Rgnl altimeter setting.

MISSED APPROACH: Climb to 3300 via PSP R-120 to PSP VORTAC and hold.

JACQUELINE COCHRAN REGIONAL ASOS 118.325	SOCAL APP CON ★ 135.275 251.1	UNICOM 122.8 (CTAF) 0
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3300

PSP

↑

PSP R-120

115.5

ZUVEL

TRM 8.1

VORTAC

One Minute Holding Pattern

130°

310°

2900

0.8

8.1 NM

REIL Rwy 28

URL Rwy 10-28 0

FAF to MAP 8.1 NM

Knots	60	90	120	150	180
Min:Sec	8:06	5:24	4:03	3:14	2:42

310° 8.9 NM from FAF

5002 X 70

0.6% UP 0.88

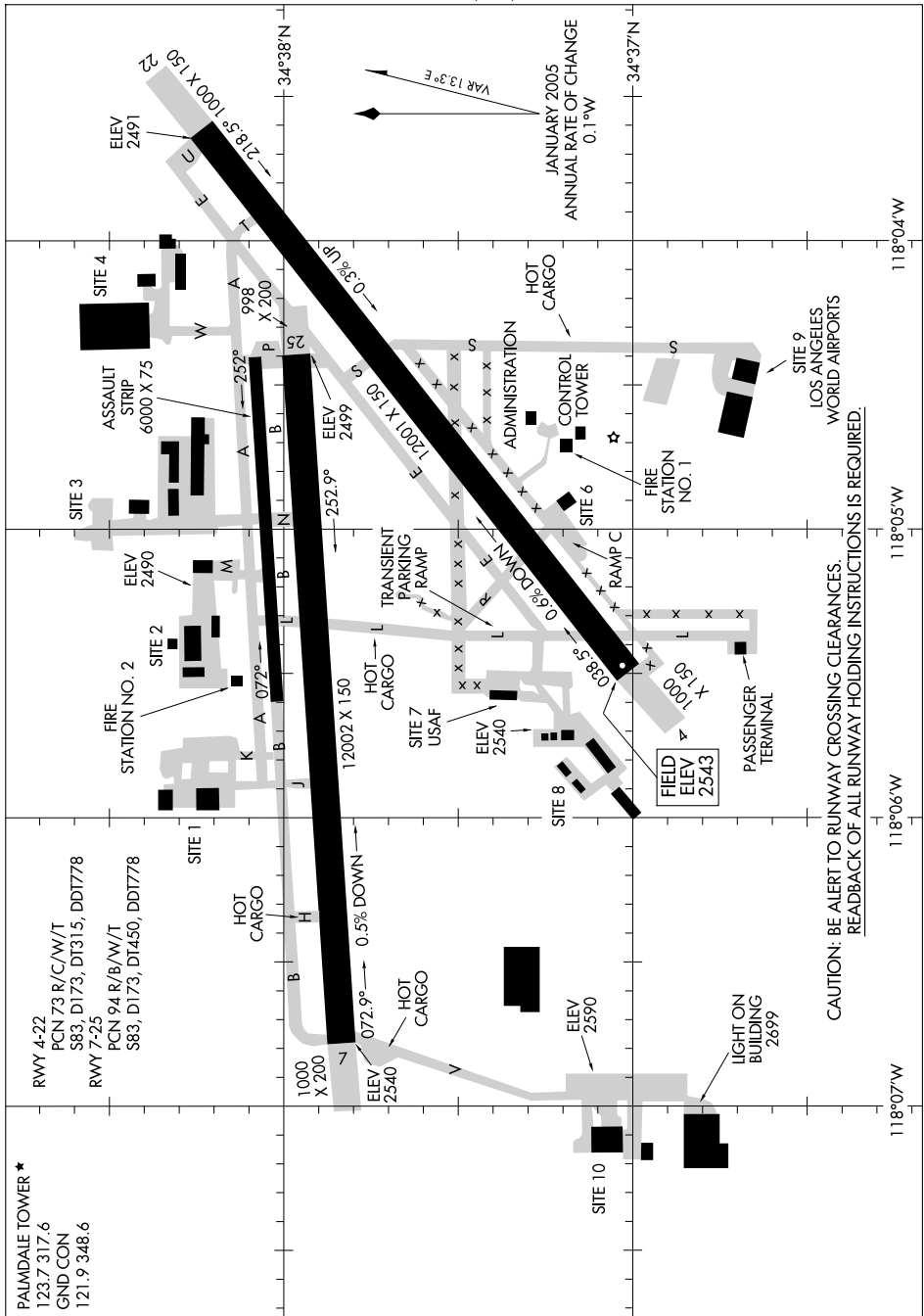
CATEGORY	A	B	C	D
CIRCLING	920-1 847 (900-1)	920-1¼ 847 (900-1¼)	920-2½ 847 (900-2½)	NA

SW-3, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-310 (FAA)

PALMDALE RG/UL/SAF PLANT 42 (PMD)
PALMDALE, CALIFORNIA



SW-3. 14 JAN 2010 to 11 FEB 2010

LOCALIZER I-PMD 110.7	APCH CRS 251°	Rwy Idg 12,002 TDZE 2503 Arpt Elev 2543
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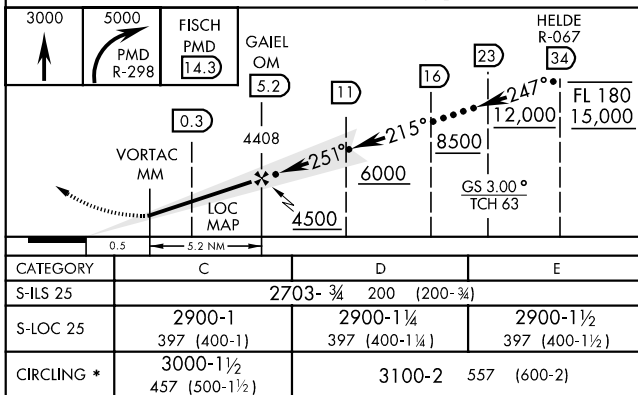
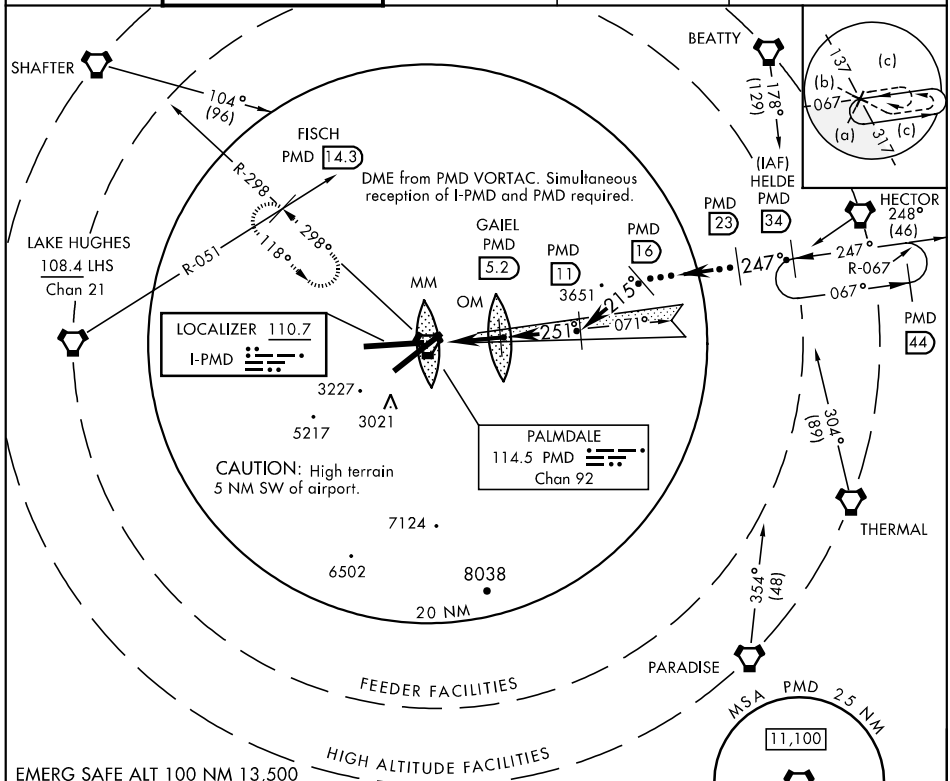
JAL-310 [USAF]

PALMDALE REGIONAL/USAF PLANT 42 (KPMD)

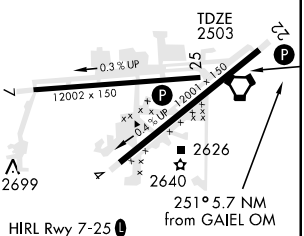
▼ * Circling S of Rwy 7-25 not authorized for CAT E aircraft.

MISSED APPROACH: Climb to 3000 then climbing right turn to 5000 via PMD R-298 to FISCH INT and hold.

JOSHUA APP CON 124.55 363.0	PALMDALE TOWER ★ 123.7 317.6	GND CON 121.9 348.6	CTAF 123.7	RADAR VECTURING ASOS 118.275
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ELEV 2543



TACAN Chan 92	PMD 247°	APCH CRS 247°	Rwy Idg TDZE Arprt Elev 12,002 2503 2543
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JAL-310 [USAF]

PALMDALE REGIONAL USAF PLANT 42 (KPMO)

▼ * Circling S of Rwy 7-25 not authorized for CAT E aircraft.

MISSED APPROACH: Climbing right turn to 5000 via PMD R-298 to FISCH INT and hold.

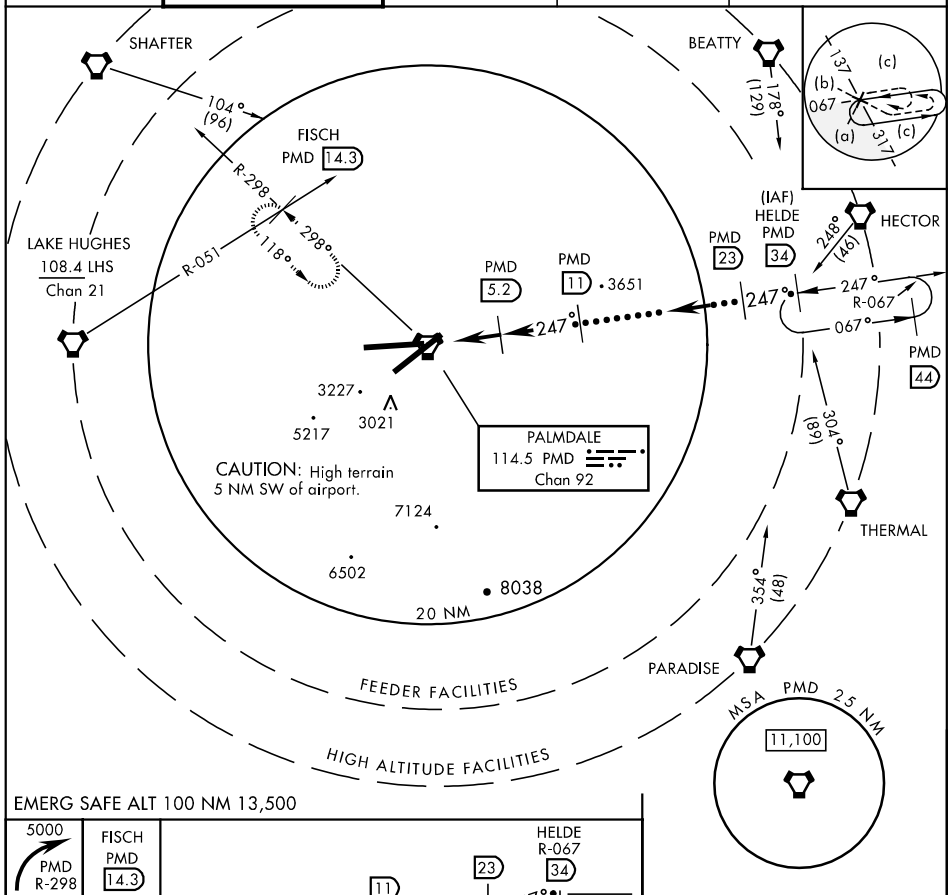
JOSHUA APP CON
124.55 363.0

PALMDALE TOWER ★
123.7 317.6

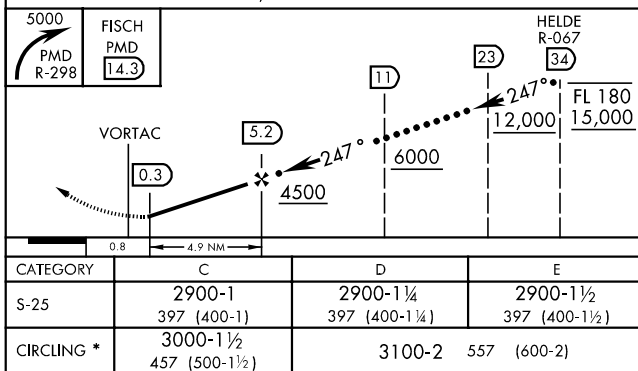
GND CON
121.9 348.6

CTAF
123.7

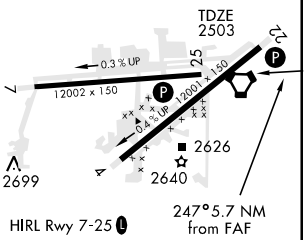
RADAR VECTORING ASOS
118.275



EMERG SAFE ALT 100 NM 13,500



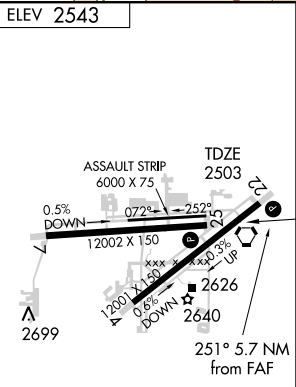
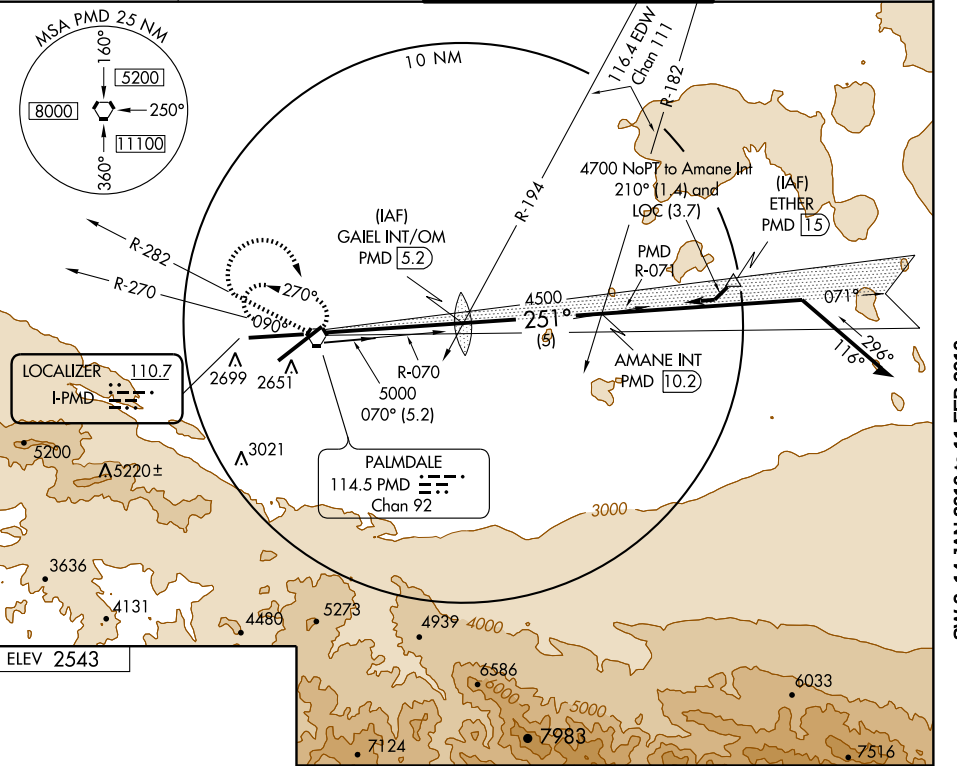
ELEV 2543



LOC I-PMD	APP CRS	Rwy Idg	12002
110.7	251°	TDZE	2503
		Apt Elev	2543

▼ Circling NA south of Rwy 7-25 for Cat. E. Circling to Rwy 7 NA at night.	MISSED APPROACH: Climb to 5000 via PMD R-282, then climbing right turn to 7000 direct PMD VORTAC and hold.
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ASOS 118.275	JOSHUA APP CON 124.55 363.0	PALMDALE TOWER ★ 123.7 (CTAF) 317.6	GND CON 121.9 348.6
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HIRL Rwy 4-22 and 7-25		CATEGORY				
FAF to MAP 5.7 NM		A				
S-ILS 25		2703-1 200 (200-1)				
S-LOC 25		2900-1 397 (400-1)			2900-1½ 397 (400-1½)	2900-1½ 397 (400-1½)
CIRCLING		3000-1 457 (500-1)		3000-1½ 457 (500-1½)		3100-2 557 (600-2)
Knots		60	90	120	150	180
Min:Sec		5:42	3:48	2:51	2:17	1:54

SW-3, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	12002
251°	TDZE	2503
	Apt Elev	2543

RNAV (GPS) RWY 25

PALMDALE RGNL/USAF PLANT 42 (PMD)



Circling to Rwy 7 NA at night. DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -20°C (-4°F) or above 44° C (111°F) .

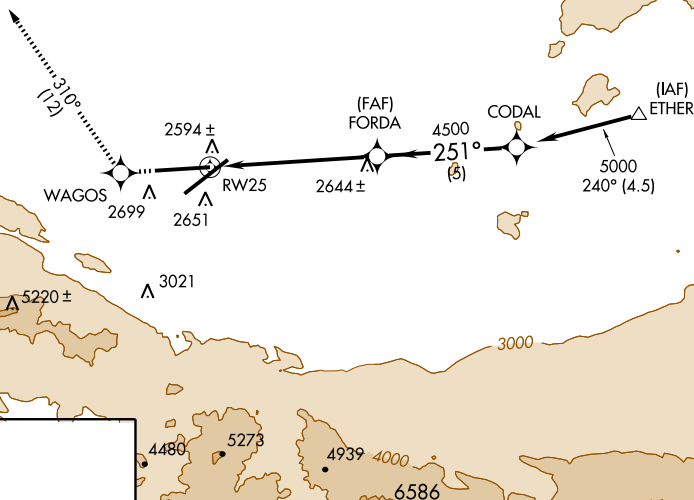
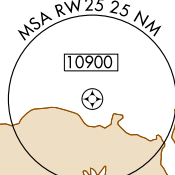
MISSED APPROACH: Climb to 5000 direct WAGOS WP then via 310° track to FISCH WP and hold.

ASOS
118,275

JOSHUA APP CON
124.55 363.0

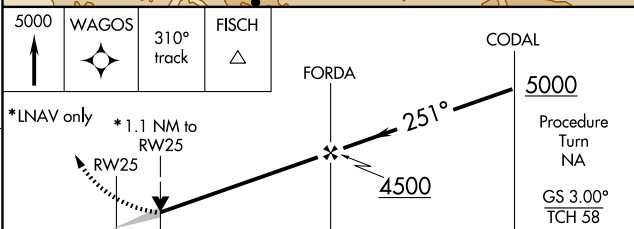
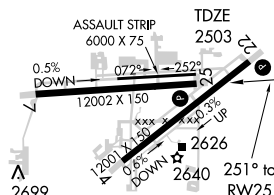
PALMDALE TOWER ★
123.7 (CTAF) **L** 317.6

GND CON
121.9 348.6



SW-3. 14 JAN 2010 to 11 FEB 2010

ELEV 2543



	1.1	4.9 NM		5 NM				
CATEGORY	A		B		C		D	
GLS PA DA	NA							
LNAV/ VNAV DA	2840-1¼ 337 (300-1¼)							
LNAV MDA	2900-1 397 (400-1)					2900-1¼ 397 (400-1¼)		
CIRCLING	3000-1 457 (500-1)			3000-1½ 457 (500-1½)		3100-2 557 (600-2)		

HIRL Rwy 4-22 and 7-25 **L**

VORTAC PMD 114.5 Chan 92	APP CRS 265°	Rwy Idg 12002 TDZE 2503 Apt Elev 2543
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VOR/DME or TACAN RWY 25

PALMDALE RGNL/USAF PLANT 42 (PMD)

T Circling NA South of Rwy 7-25 for Cat. E.
Circling to Rwy 7 NA at night.

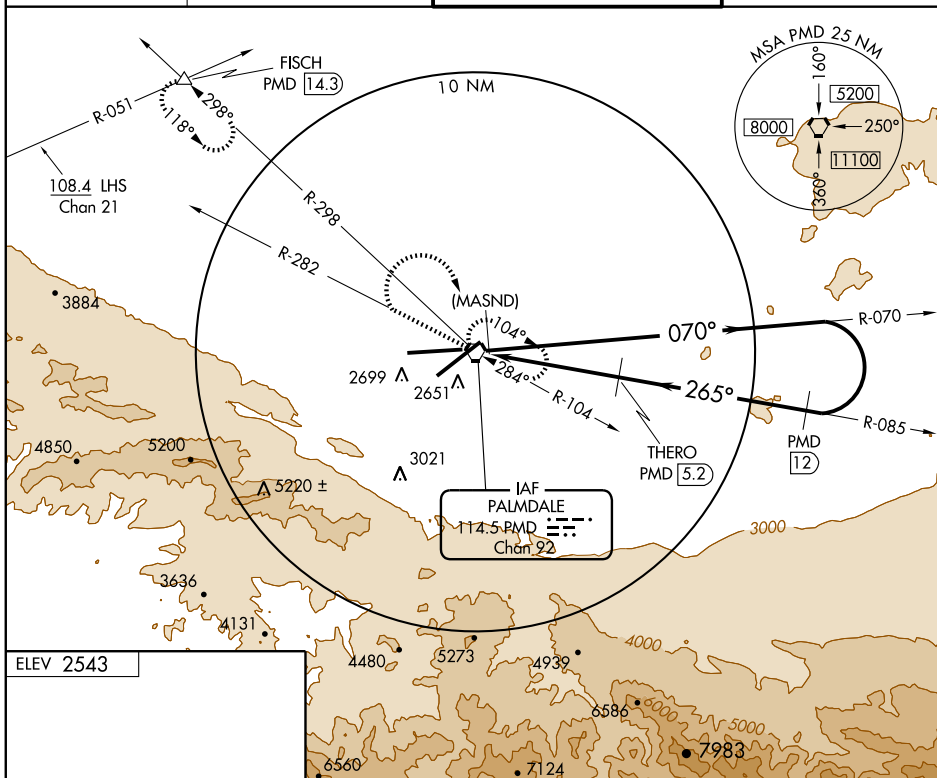
MISSED APPROACH: Climb to 5000 via PMD R-282 then climbing right turn to 7000 direct PMD VORTAC and hold. (TACAN aircraft climbing right turn to 5000 via R-298 to FISCH Int/14.3 DME and hold SE left turn 298° inbound.)

ASOS
118.275

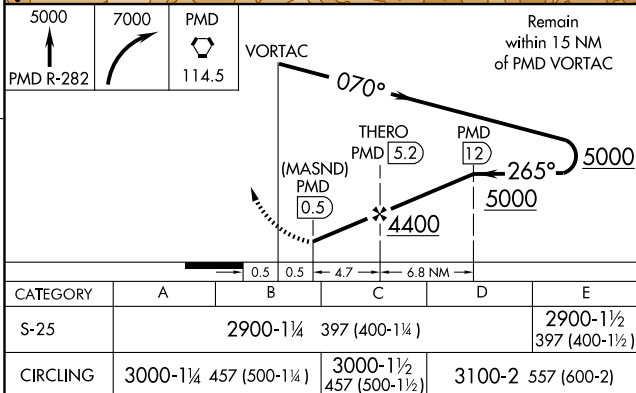
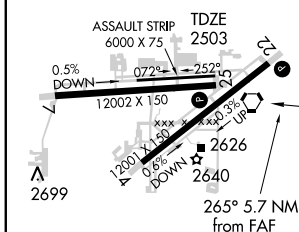
JOSHUA APP CON
124.55 363.0

PALMDALE TOWER ★
123.7 (CTAF) **L** 317.6

GND CON
121.9 348.6



ELEV 2543

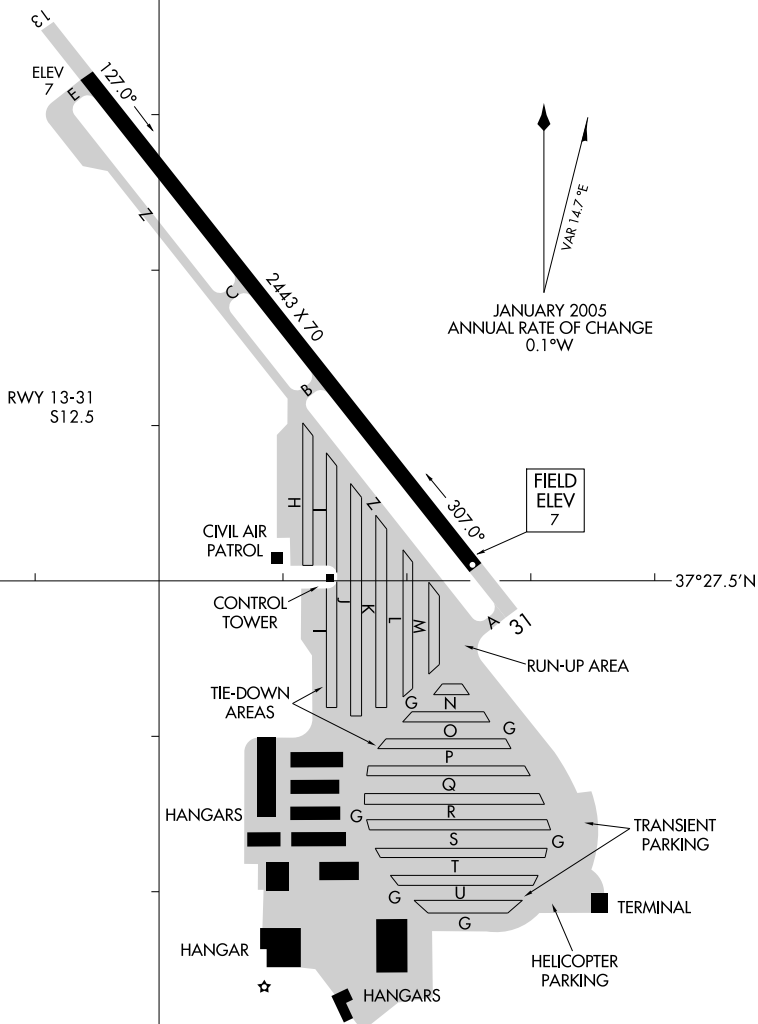
HIRL Rwy 4-22 and 7-25 **L**

AIRPORT DIAGRAM

PALO ALTO AIRPORT OF SANTA CLARA COUNTY (PAO)
AL-9216 (FAA) PALO ALTO, CALIFORNIA

ATIS 135.275
PALO ALTO TOWER ★
118.6
GND CON
125.0

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



SW-2 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	2443
322°	TDZE	3
	Apt Elev	3

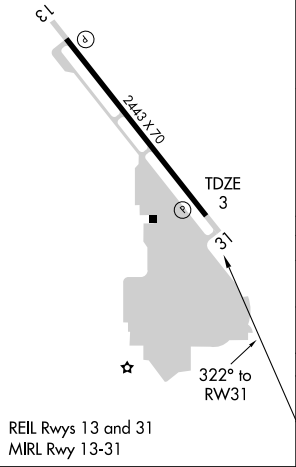
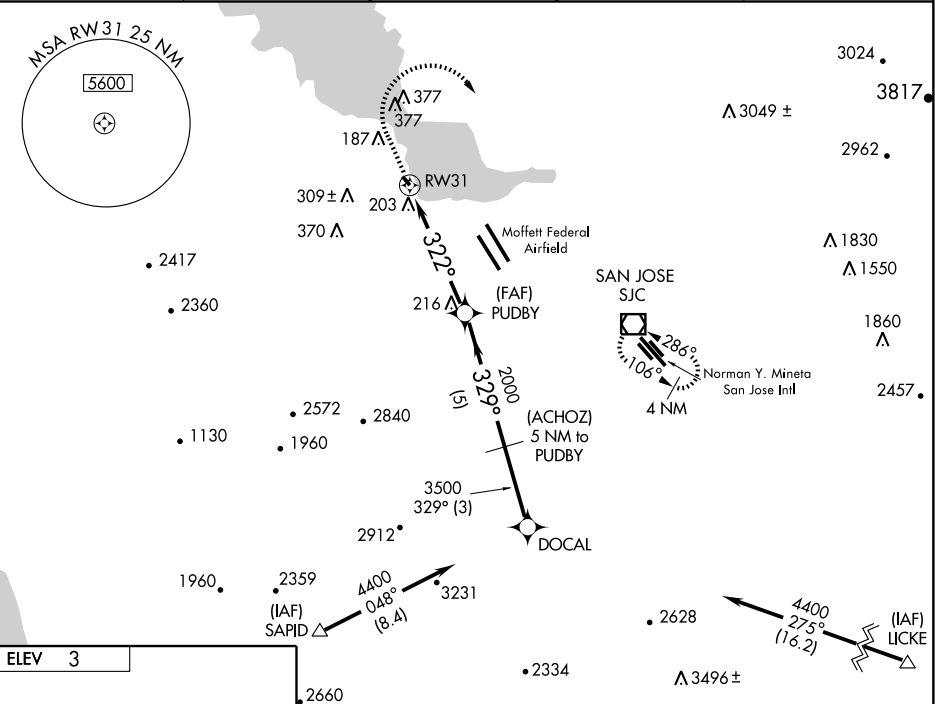
PALO ALTO ARPT OF SANTA CLARA COUNTY (P.A.O)

When control tower closed, use Norman Y. Mineta San Jose Intl altimeter setting.

Circling not authorized southwest of Rwy 13-31.

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct SJC VOR/DME and hold.

ATIS 135.275	NORCAL APP CON 121.3 270.35	PALO ALTO TOWER * 118.6 (CTAF)	GND CON 125.0	UNICOM 122.95
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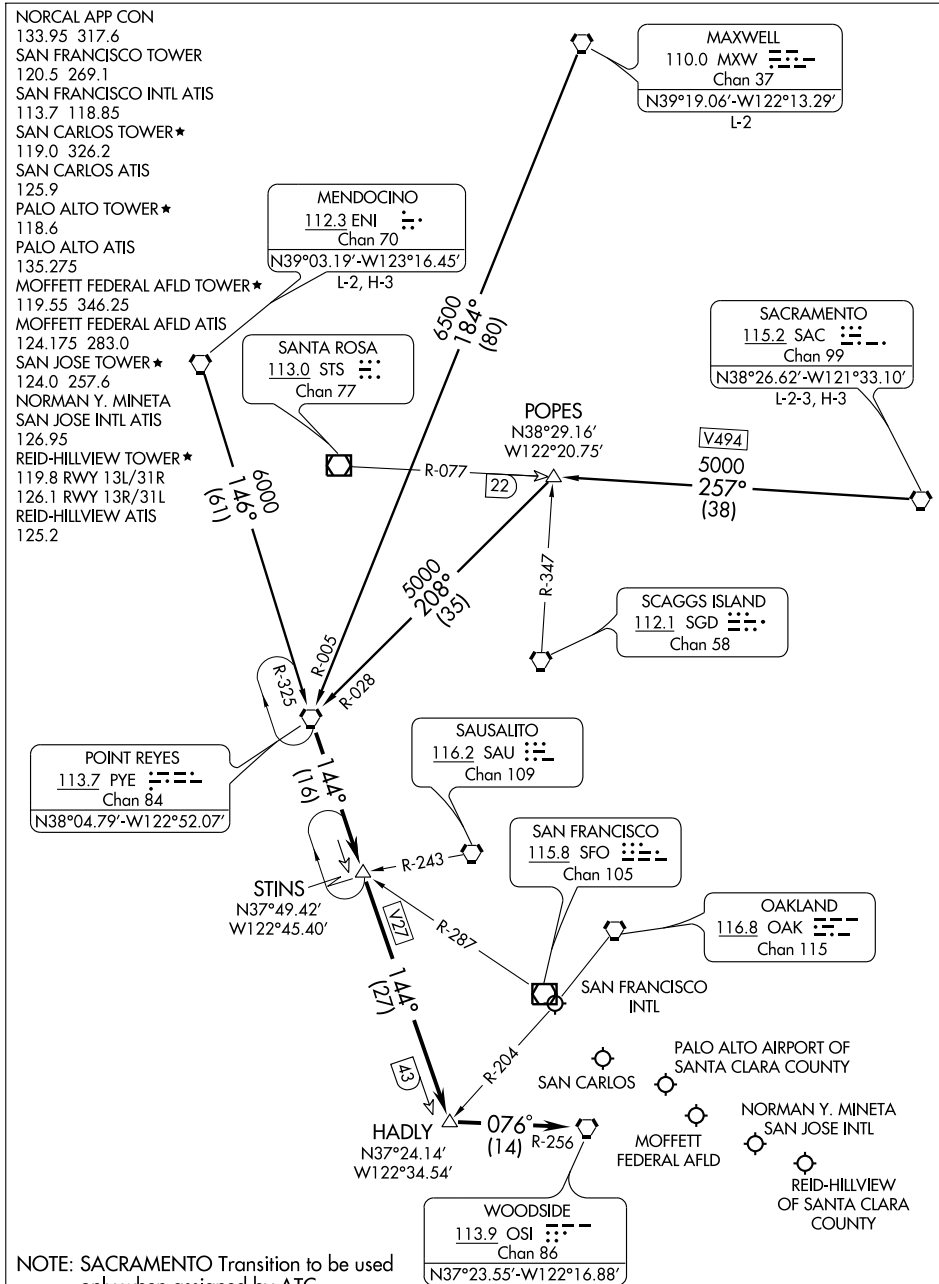


ELEV 3 1000 3000 SJC VGSI and descent angle not coincident. (ACHOZ) 5 NM to PUDBY DOCAL				
RW31 322° 2000 329° 3500 4400 Procedure Turn NA				
CATEGORY	A	B	C	D
S-31	460-1	457 (500-1)		NA
CIRCLING	460-1 457 (500-1)	500-1 497 (500-1)		NA
NORMAN Y. MINETA SAN JOSE INTL ALTIMETER SETTING MINIMUMS				
S-31	500-1	497 (500-1)		NA
CIRCLING	500-1 497 (500-1)	520-1 517 (600-1)		NA

POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



NOTE: SACRAMENTO Transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-2. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

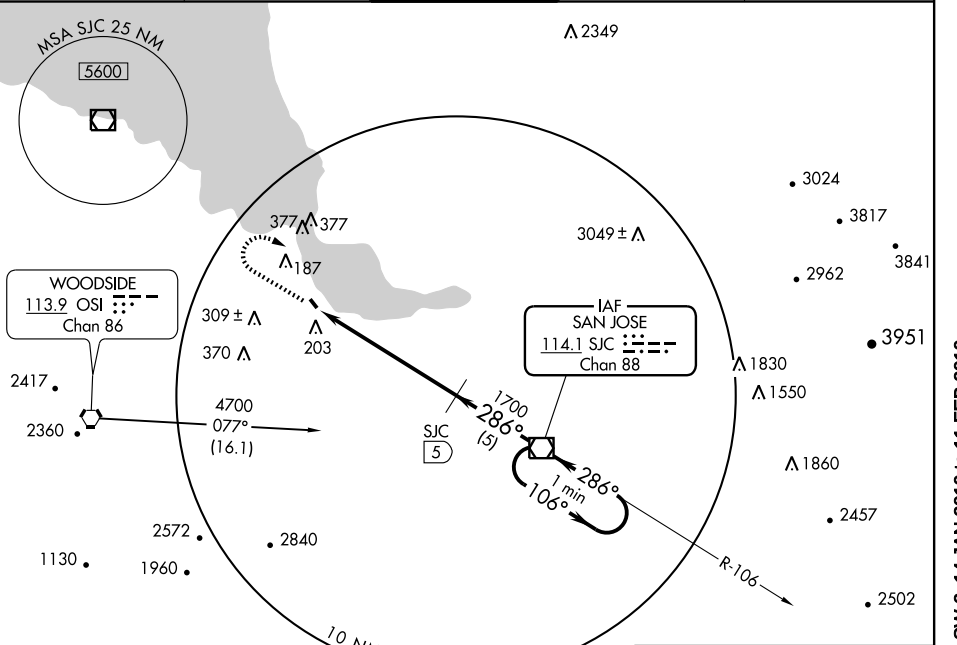
▼

▲

When control tower closed, use Norman Y. Mineta San Jose Intl altimeter setting.
Circling not authorized SW of Rwy 13-31.

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct SJC VOR/DME and hold.

ATIS 135.275	NORCAL APP CON 121.3 270.35	PALO ALTO TOWER★ 118.6 (CTAF)	GND CON 125.0	UNICOM 122.95
-----------------	--------------------------------	----------------------------------	------------------	------------------



ELEV 3

1000 3000 SJC 114.1

One Minute Holding Pattern

VOR/DME

106° 286° 3000

1700

286° 4.5 NM

5 NM

13 2443 X-70 286° 4.5 NM from FAF TDZE 3 31

CATEGORY	A	B	C	D
S-31	460-1	457 (500-1)		NA
CIRCLING	460-1 457 (500-1)	540-1 537 (600-1)		NA
NORMAN Y. MINETA SAN JOSE INTL ALTIMETER SETTING MINIMUMS				
S-31	500-1	497 (500-1)		NA
CIRCLING	500-1 497 (500-1)	580-1 577 (600-1)		NA

REIL Rwy 13 and 31
MIRL Rwy 13-31

VORTAC PRB 114.3 Chan 90	APP CRS 313°	Rwy Idg TDZE Apt Elev	N/A N/A 836
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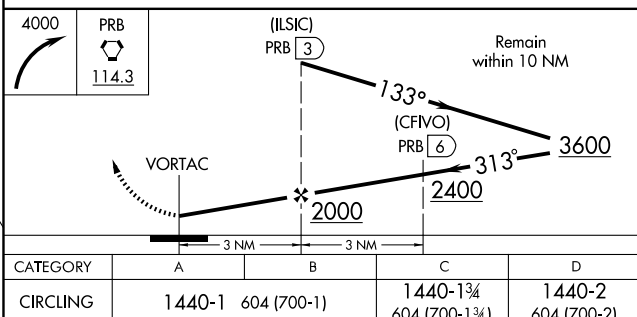
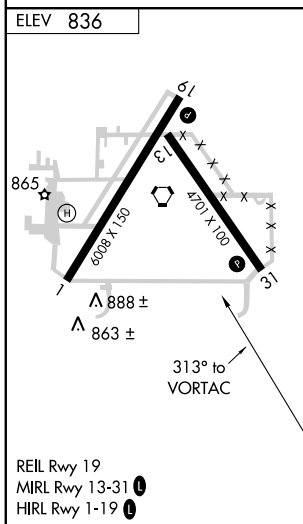
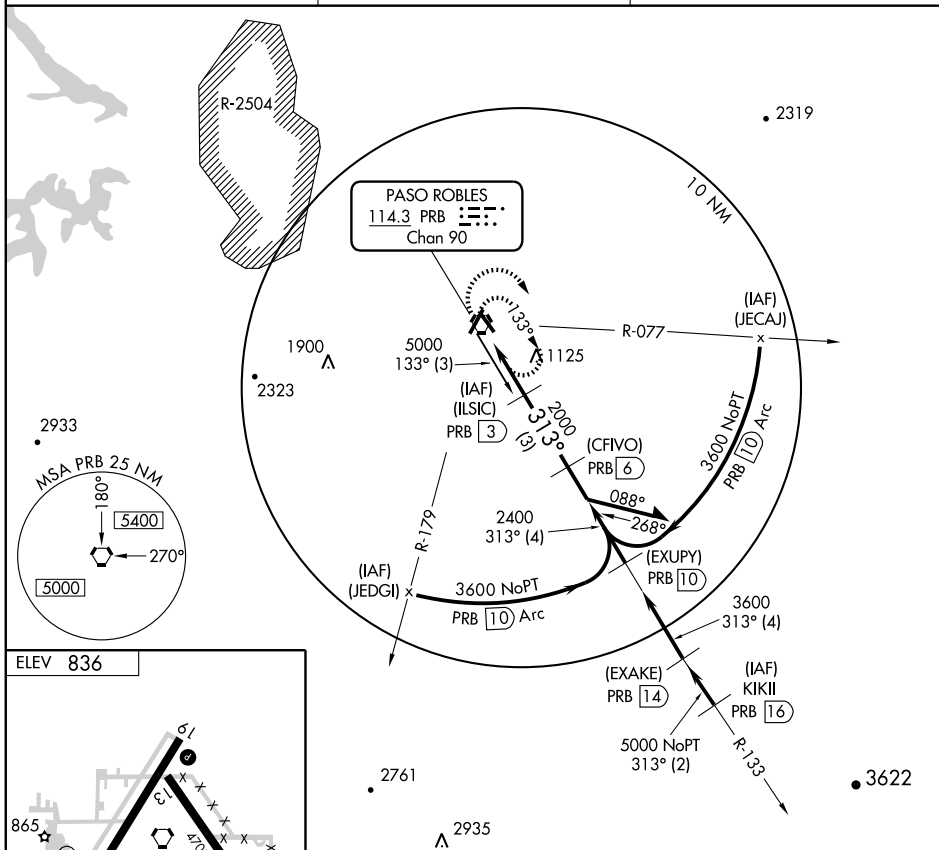
VOR/DME or GPS-B
PASO ROBLES MUNI (PRB)

MISSED APPROACH: Climbing right turn to 4000 in PRB VORTAC holding pattern.

ASOS
120,125

OAKLAND CENTER
128.7 307.0

UNICOM
123.0 (CTAF) **L**



VORTAC PRB 114.3 Chan 90	APP CRS 172°	Rwy Idg 6009 TDZE 810 Apt Elev 836
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VOR/DME or GPS RWY 19
PASO ROBLES MUNI (PRB)

PASO ROBLES MUNI (PRB)

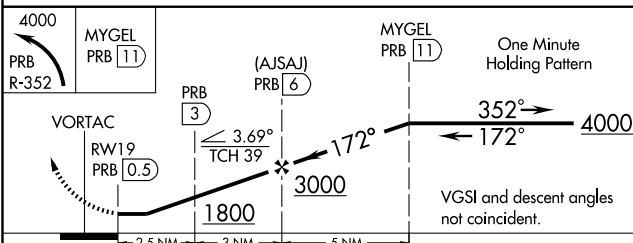
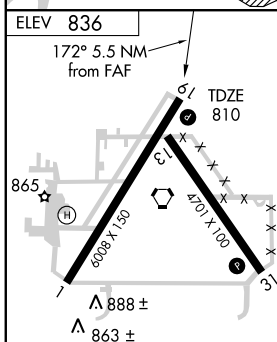
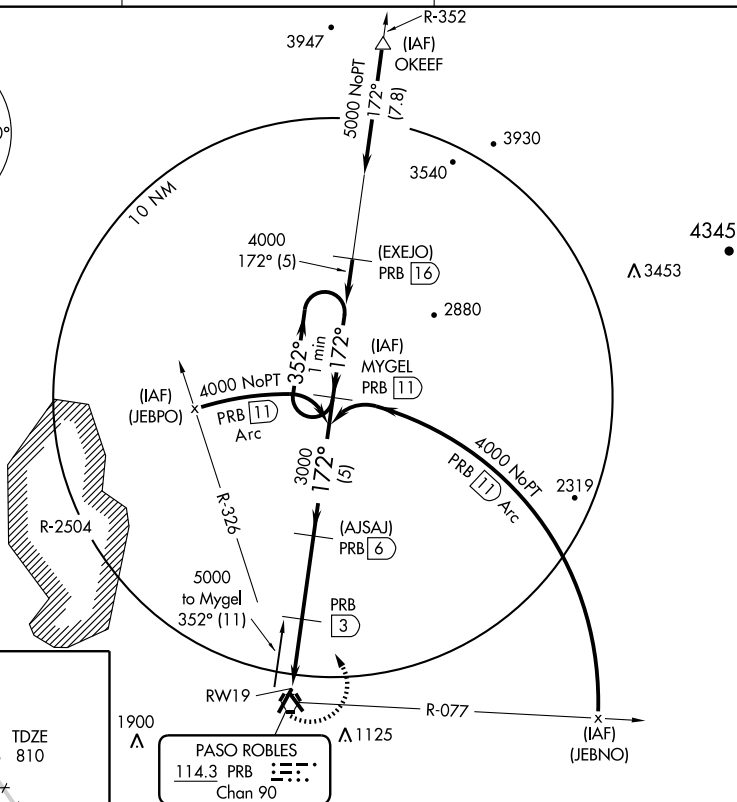
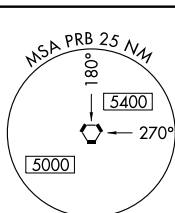


MISSED APPROACH: Climbing left turn to 4000 via PRB R-352 to MYGEL/11 DME and hold.

ASOS
120.125

OAKLAND CENTER
128.7 307.0

UNICOM
123.0 (CTAF) **L**



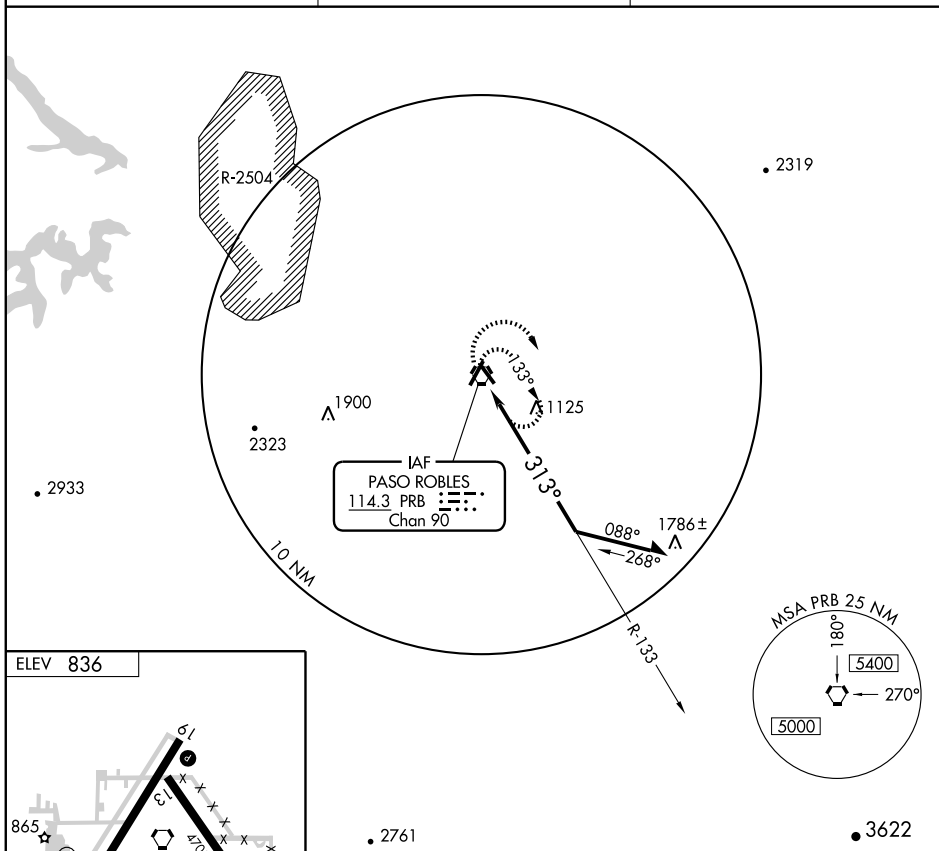
CATEGORY	A	B	C	D
S-19	1200-1 390 (400-1)			1200-1¼ 390 (400-1¼)
CIRCLING	1300-1 464 (500-1)		1340-1½ 504 (600-1½)	1440-2 604 (700-2)

REIL Rwy 19
MIRL Rwy 13-31 **L**
HIRL Rwy 1-19 **L**

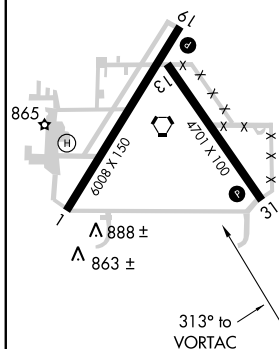
MISSED APPROACH: Climbing right turn to 4000 in PRB VORTAC holding pattern.

ASOS
120,125

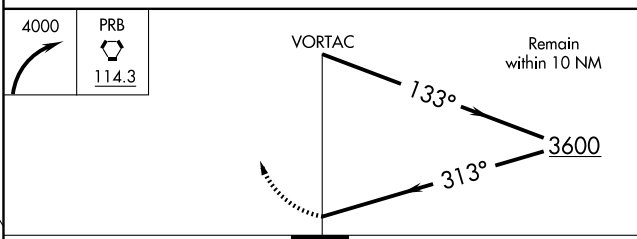
OAKLAND CENTER
128.7 307.0

UNICOM
123.0 (CTAF) **L**

ELEV 836



REIL Rwy 19
MIRL Rwy 13-31 **L**
HIRL Rwy 1-19 **L**

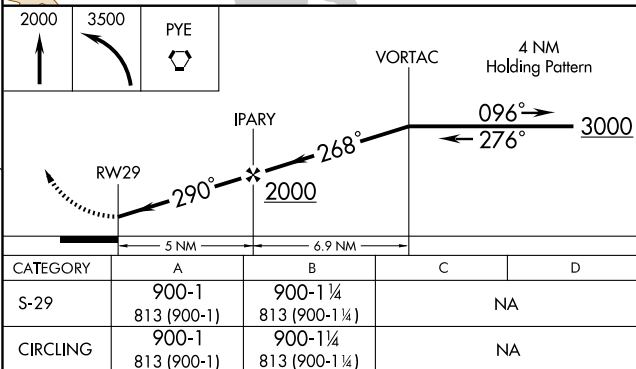
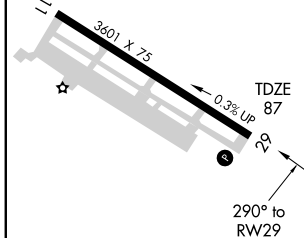
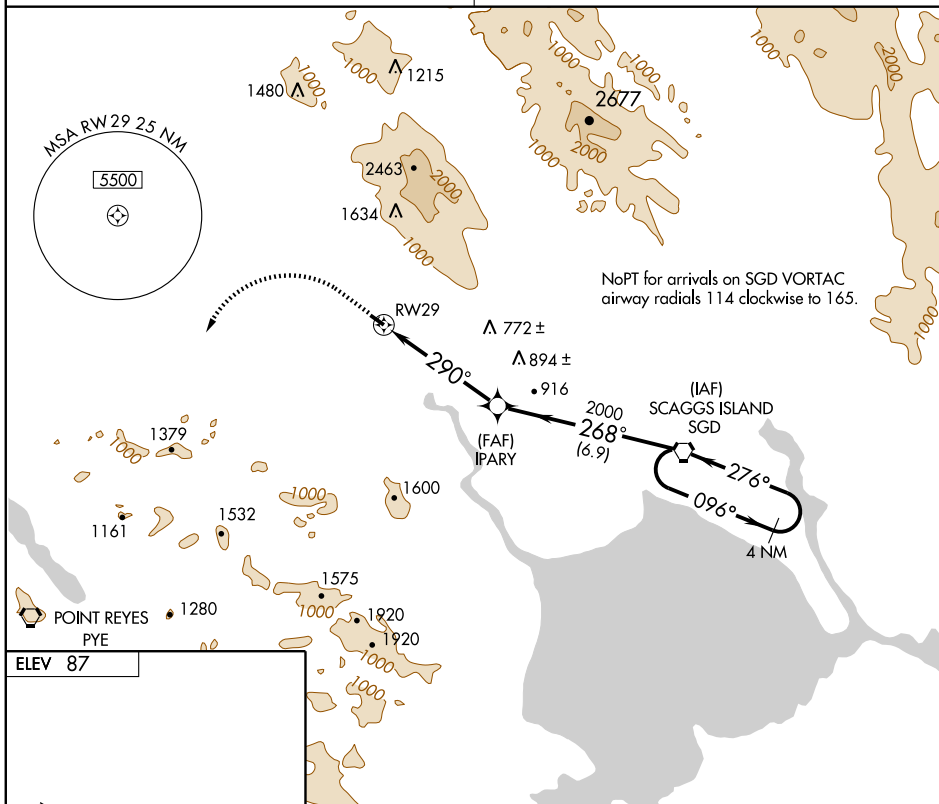


CATEGORY	A	B	C	D
CIRCLING	2100-1¼ 1264 (1300-1¼)	2100-1½ 1264 (1300-1½)	2100-3	1264 (1300-3)

GPS RWY 29
PETALUMA MUNI (O69)

MISSED APPROACH: Climb to 2000, then climbing left turn to 3500 direct to PYE VORTAC.

UNICOM
122.7 (CTAF) **L**



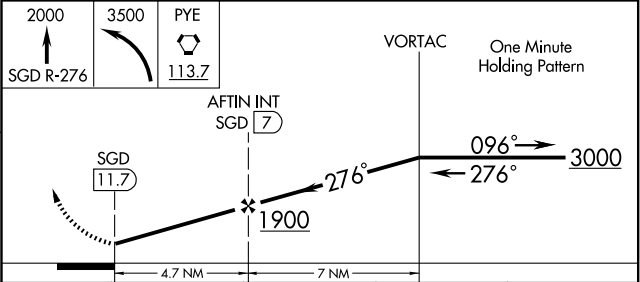
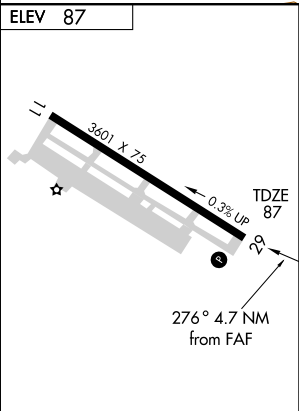
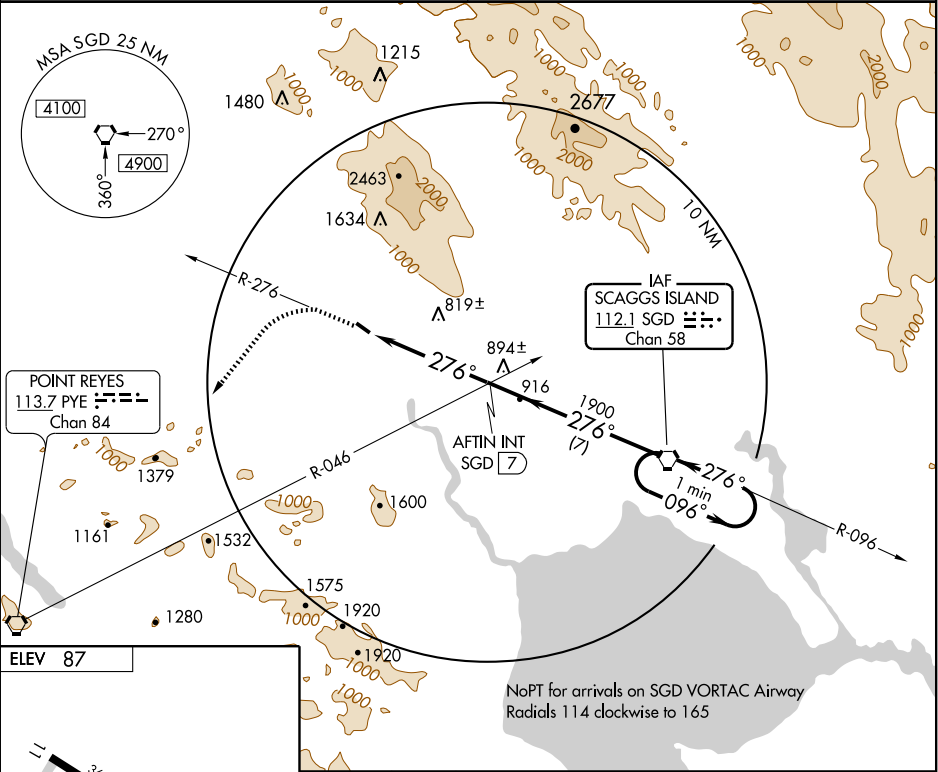
VORTAC SGD	APP CRS	Rwy Idg	3601
112.1	276°	TDZE	87
Chan 58		Apt Elev	87

VOR RWY 29
PETALUMA MUNI (069)

Use Santa Rosa altimeter setting; when not received, procedure not authorized.

MISSED APPROACH: Climb to 2000 via SGD R-276 then climbing left turn to 3500 direct PYE VORTAC.

OAKLAND CENTER 127.8 353.5	UNICOM 122.7 (CTAF)
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MIRL Rwy 11-29						CATEGORY	A	B	C	D
FAF to MAP 4.7 NM						S-29	1260-1¼ 1173 (1200-1¼)	1260-1½ 1173 (1200-1½)	NA	
Knots	60	90	120	150	180	CIRCLING	1260-1¼ 1173 (1200-1¼)	1260-1½ 1173 (1200-1½)	NA	
Min:Sec	4:42	3:08	2:21	1:53	1:34		1173 (1200-1¼)	1173 (1200-1½)		

APP CRS
046°

Rwy Idg
TDZE
Apt Elev

4201
2585
2585

RNAV (GPS) RWY 5

PLACERVILLE (PVF)

▼

▲NA

Circling NA northwest of Rwy 5-23.
DME/DME RNP- 0.3 NA.

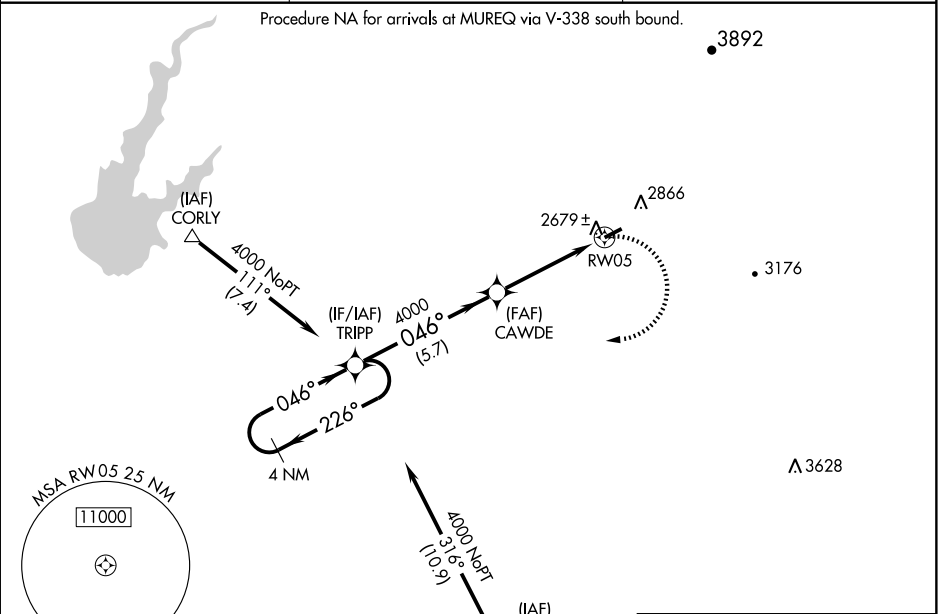
Obtain local altimeter setting on CTAF, when not received use Sacramento Mather altimeter setting.
VDP NA with Sacramento Mather altimeter setting.

MISSED APPROACH: Climbing right turn to 4500 direct TRIPP and hold.

AW05-3
128.125

NORCAL APP CON
127.4 317.5

UNICOM
122.8 (CTAF)



4 NM Holding Pattern

TRIPP

CAWDE

4500 TRIPP

4000

226°

046°

046°

4000

1.4 NM to RW05

3.03° TCH 30

2.9 NM

1.4

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
LNNAV MDA	3040-1	455 (500-1)	NA	
CIRCLING	3040-1 455 (500-1)	3280-1 695 (700-1)	NA	
SACRAMENTO MATHER ALTIMETER SETTING MINIMUMS				
LNNAV MDA	3440-1 855 (900-1)	3440-1¼ 855 (900-1¼)	NA	
CIRCLING	3460-1 875 (900-1)	3700-1½ 1115 (1200-1½)	NA	

ELEV 2585

4201 X 75

TDZE 2585

046° to RW05

MIRL Rwy 5-23

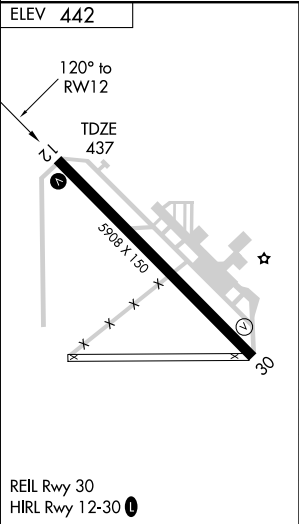
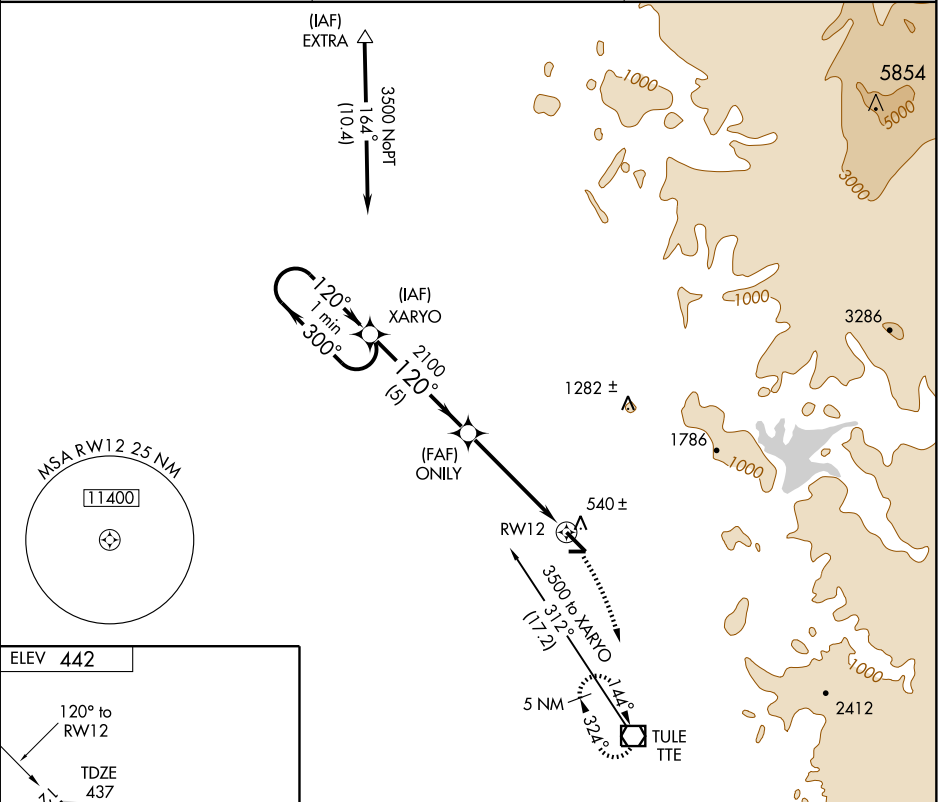
GPS RWY 12
PORTERVILLE MUNI (PTV)

APP CRS	Rwy Idg	5908
120°	TDZE	437
	Apt Elev	442

NA

MISSED APPROACH: Climbing right turn to 3100 direct TTE
VOR/DME and hold.

AWOS-3 134.625	BAKERSFIELD APP CON ★ 120.5	UNICOM 122.8 (CTAF)
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One Minute Holding Pattern				3100	TTE
XARYO ONLY					
3500 ← 300° 120° → 2100				RWY 12	
5 NM 4 NM 1 NM				3.05°	
CATEGORY	A	B	C	D	
S-12	800-1 363 (400-1)			800-1¼ 363 (400-1¼)	
CIRCLING	880-1 438 (500-1)	900-1 458 (500-1)	900-1½ 458 (500-1½)	1000-2 558 (600-2)	

GPS RWY 30
PORTERVILLE MUNI (PTV)

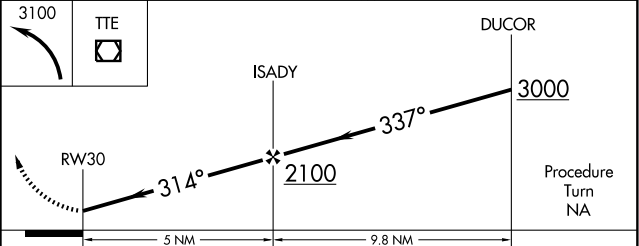
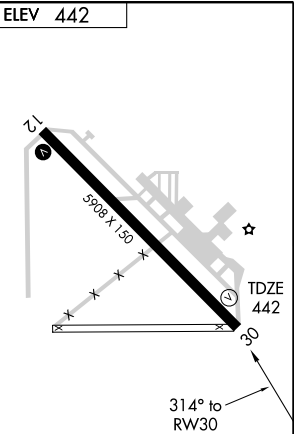
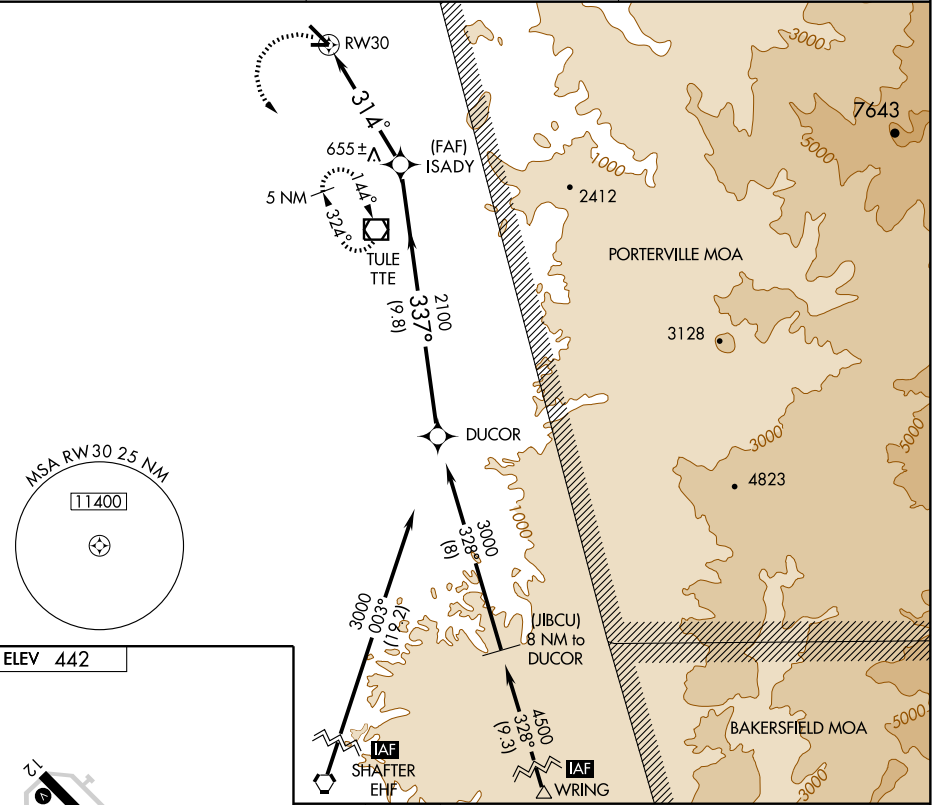
APP CRS 314°	Rwy Idg TDZE Apt Elev	5908 442 442
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 NA

 ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing left turn to 3100 direct TTE VOR/DME and hold.

AWOS-3 134.625	BAKERFIELD APP CON★ 120.5	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-30	900-1	458 (500-1)	900-1¼ 458 (500-1¼)	900-1½ 458 (500-1½)
CIRCLING	900-1	458 (500-1)	900-1½ 458 (500-1½)	1000-2 558 (600-2)

REIL Rwy 30
HIRL Rwy 12-30 0

VOR/DME TTE 109.2 Chan 29	APP CRS 327°	Rwy Idg TDZE Apt Elev	N/A N/A 442
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VOR or GPS-A
PORTERVILLE MUNI (PTV)

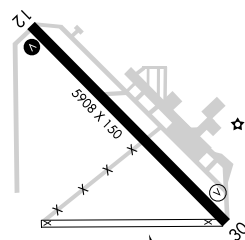
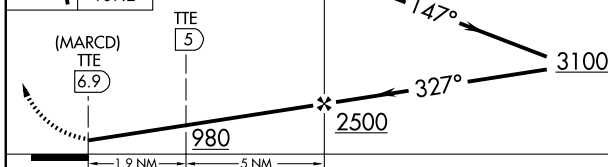
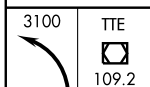
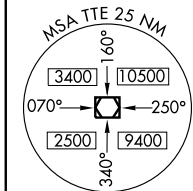
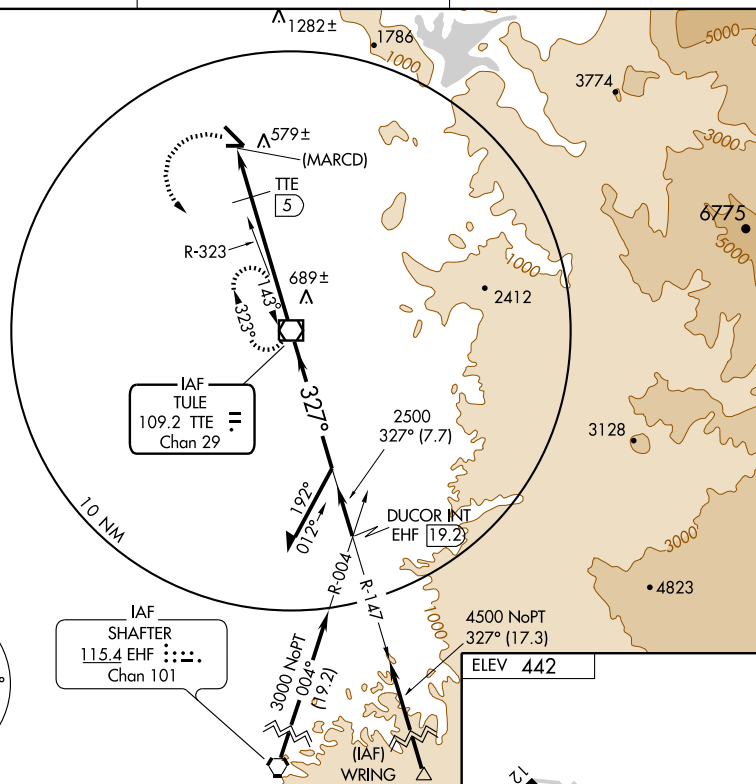


MISSED APPROACH: Climbing left turn to 3100 direct TTE VOR/DME and hold.

AWOS-3
134.625

BAKERFIELD APP CON★
120.5

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
CIRCLING	980-1	538 (600-1)	980-1½ 538 (600-1½)	1000-2 558 (600-2)
DME MINIMA				
CIRCLING	880-1 438 (500-1)	900-1 458 (500-1)	900-1½ 458 (500-1½)	1000-2 558 (600-2)

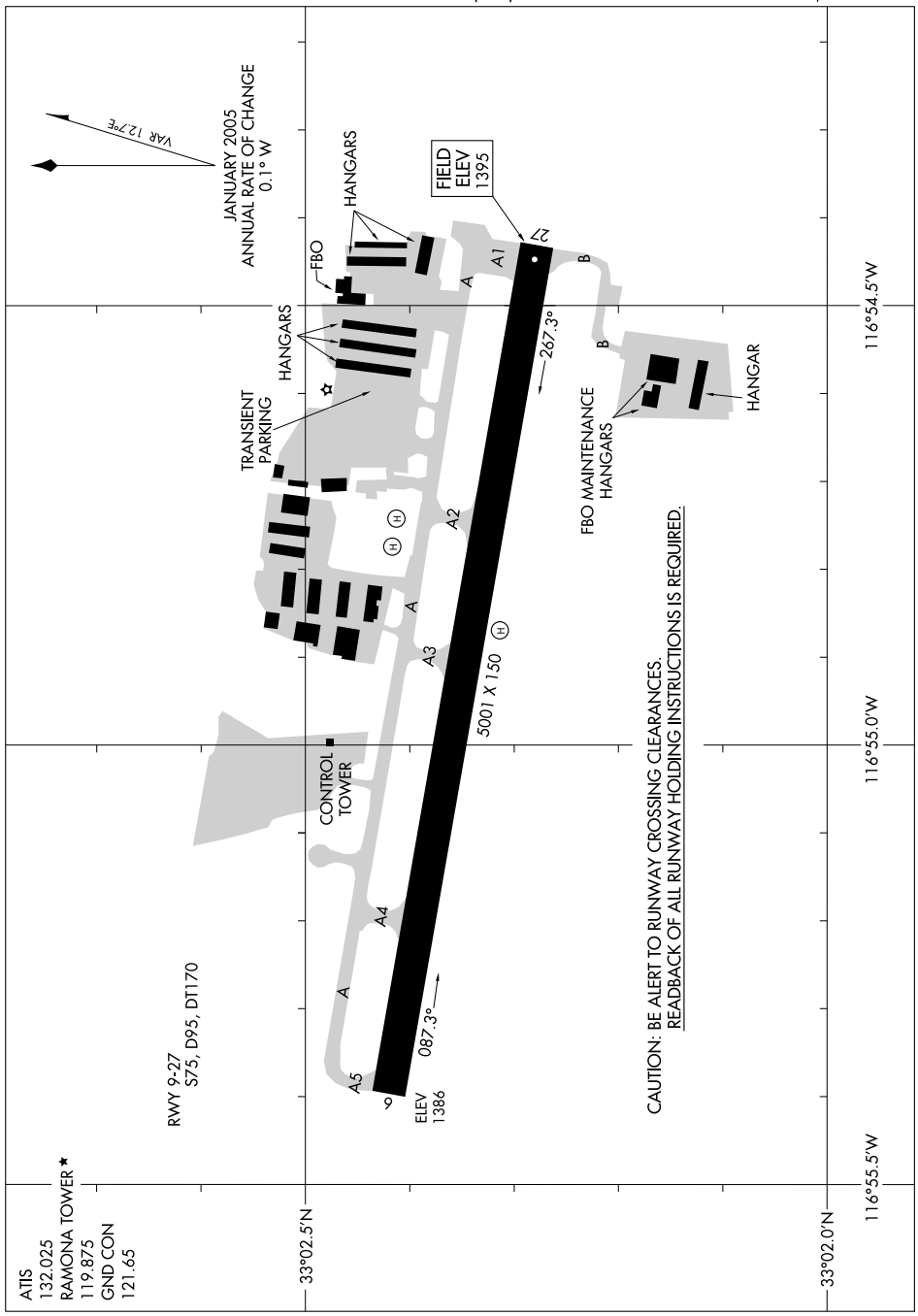
REIL Rwy 30
HIRL Rwy 12-30 **L**

FAF to MAP 6.9 NM					
Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

AIRPORT DIAGRAM

AL-6667 (FAA)

RAMONA (RNM)
RAMONA, CALIFORNIA



APP CRS	Rwy Idg	N/A
239°	TDZE	N/A
	Apt Elev	1395

RNAV (GPS)-B
RAMONA (RNM)

T	DME/DME RNP- 0.3 NA.
A	Circling NA north of Rwy 9-27. When local altimeter setting not received, use Gillespie Field altimeter setting and increase all MDA 180 feet.

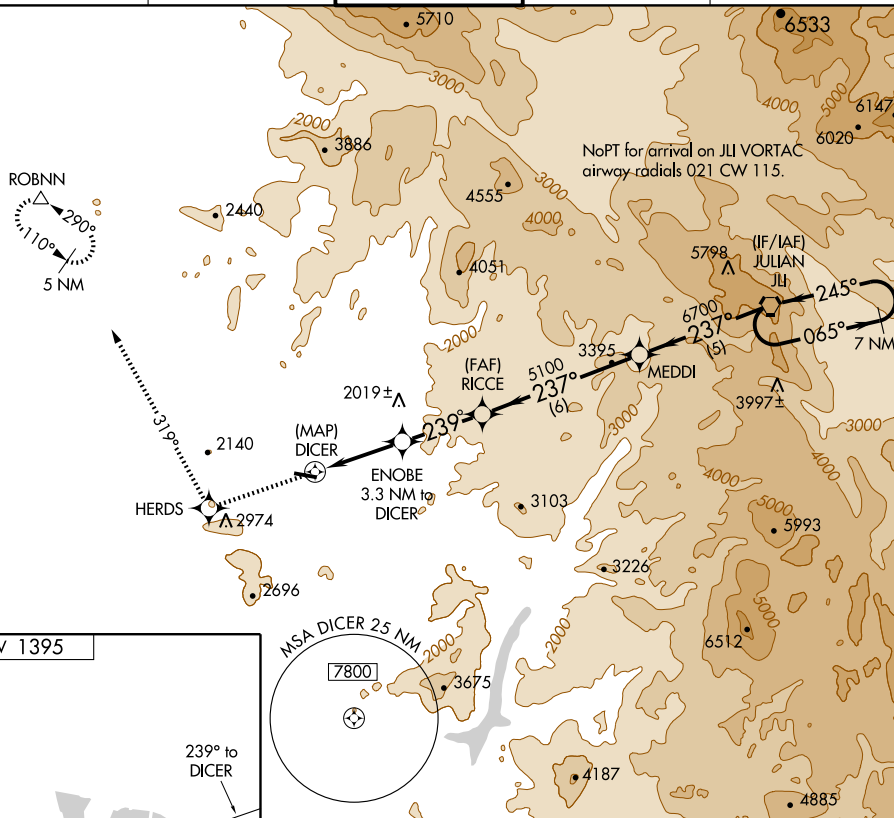
MISSED APPROACH: Climb to 5000 direct HERDS and via track 319° to ROBNB and hold.

ATIS
132.025

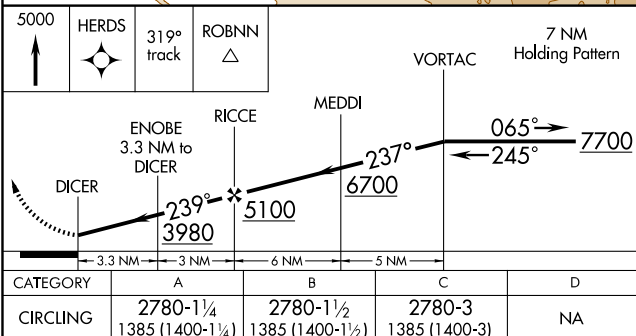
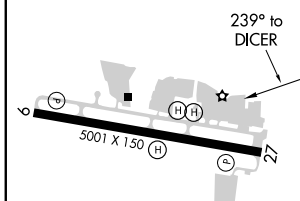
SOCAL APP CON
132.2 269.1

RAMONA TOWER★
119-875 (CTAF)📶

GND CON
121.65

UNICOM
122.95

ELEV 1395



REIL Rwy 27 **L**
MIRL Rwy 9-27 **L**

APP CRS 088°	Rwy Idg TDZE Apt Elev	5001 1389 1395
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RNAV (GPS) RWY 9
RAMONA (RNM)

RAMONA (RNM)

- ▼** Circling NA north of Rwy 9-27. DME/DME RNP -0.3 NA.
▲ LNAV minima NA when using Gillespie Field altimeter setting.
When local altimeter setting not received, use Gillespie Field altimeter setting and increase all circling MDA 180 feet and increase circling visibility Cats A and B $\frac{1}{4}$ mile and Cat C $\frac{1}{2}$ mile.

MISSED APPROACH: Climbing left turn to 5000 direct ROBNN and hold.

ATIS
132.025

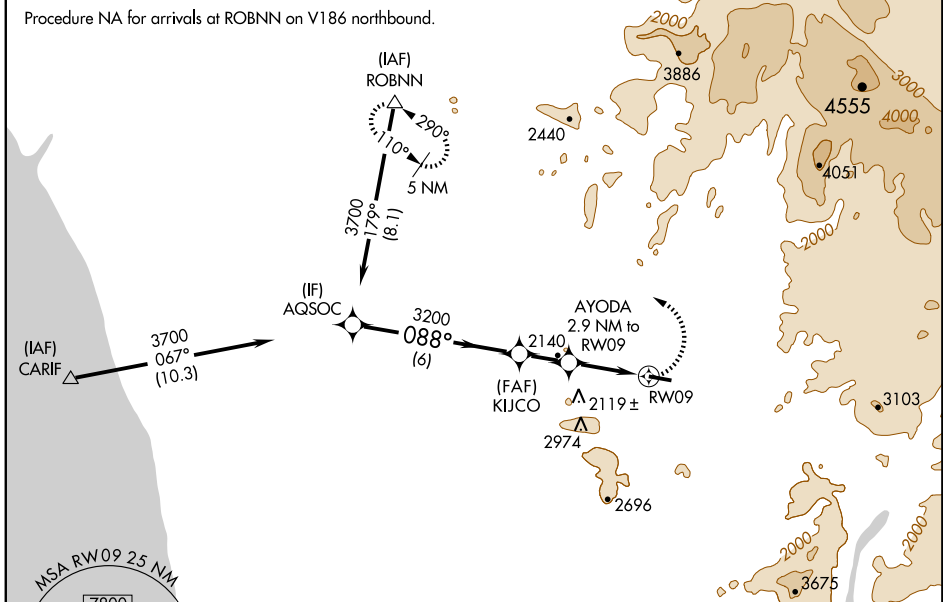
SOCAL APP CON
132.2 269.1

RAMONA TOWER ★
119 875 (CTAF) ①

GND CON
121.65

UNICOM
122.95

Procedure NA for arrivals at ROBNN on V186 northbound.

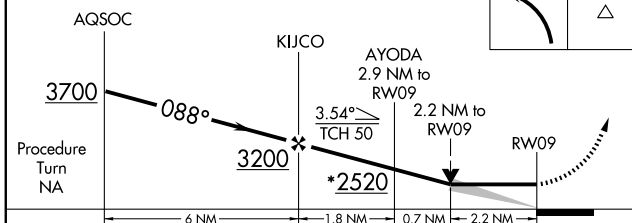


SW-3, 14 JAN 2010 to 11 FEB 2010

* 2700 when using Gillespie Field altimeter setting.

5000

ROBNN



CATEGORY	A	B	C	D
LNAV MDA	2240-1 851 (900-1)	2240-1½ 851 (900-1½)	2240-2½ 851 (900-2½)	NA
CIRCLING	2240-1 845 (900-1)	2240-1½ 845 (900-1½)	2240-2½ 845 (900-2½)	NA

ELEV 1395

088° to

RW09

1/

1

9

TDZ

138

100

100

100

100

100

1

[illegible]

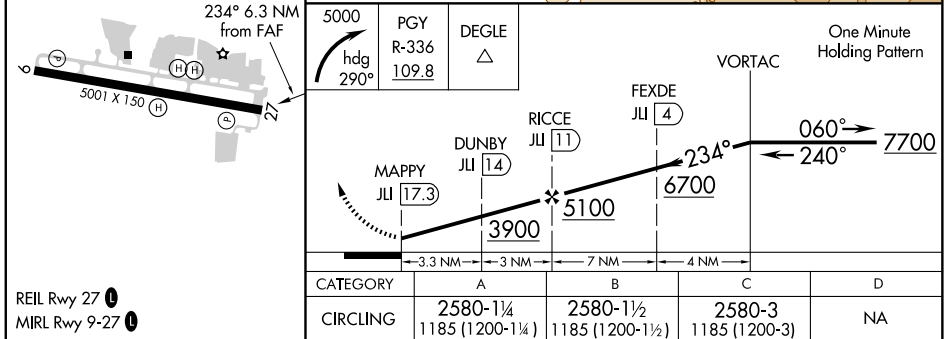
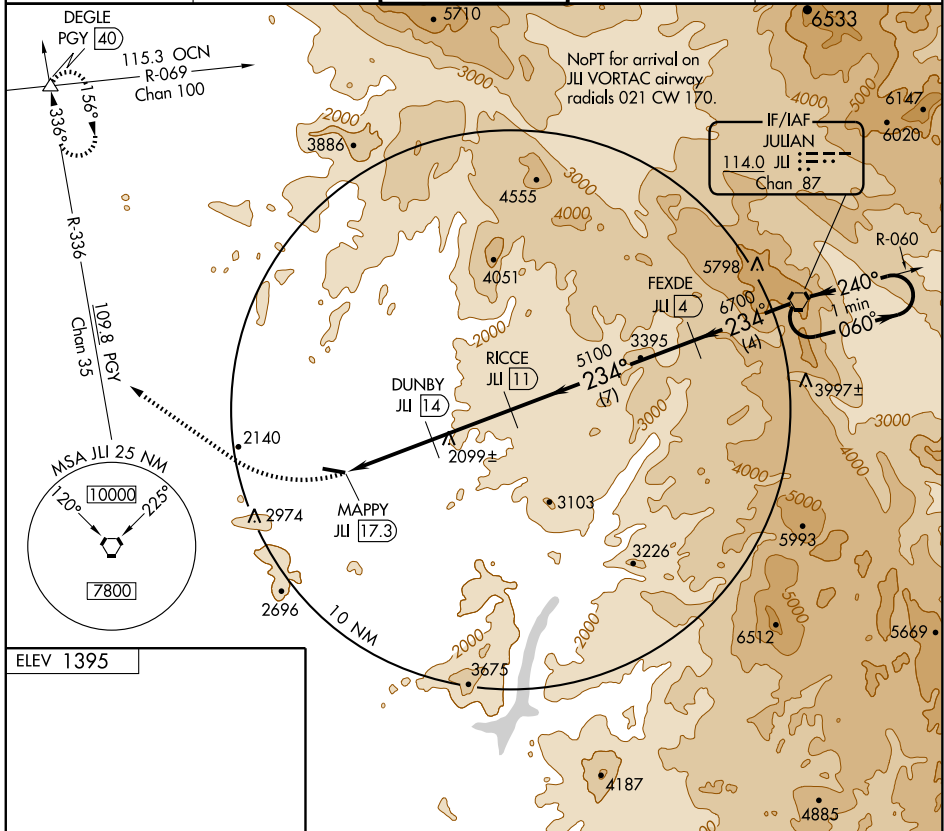
1

1

REIL R_w

MIRL R

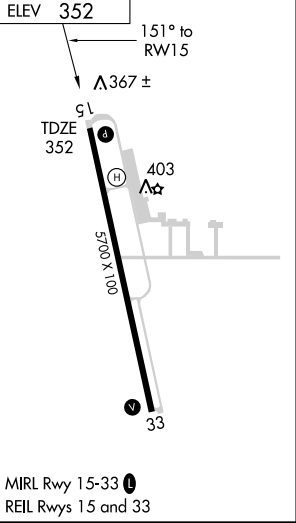
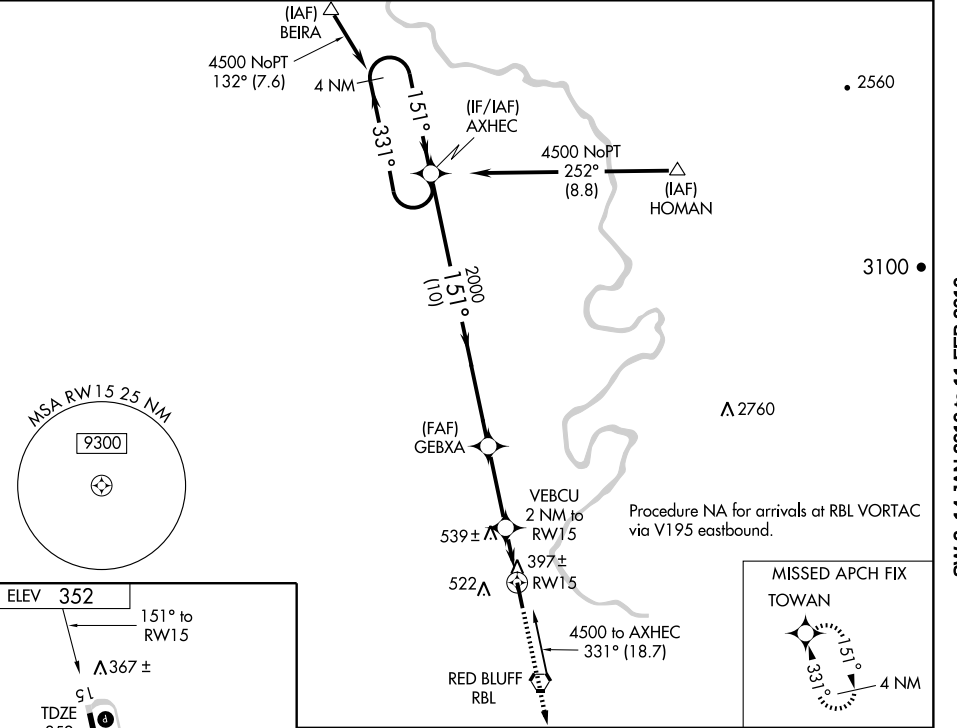
ATIS 132.025	SOCAL APP CON 132.2 269.1	RAMONA TOWER* 119.875 (CTAF) 0	GND CON 121.65	UNICOM 122.95
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Baro-VNAV NA when using Redding altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received; use Redding altimeter setting and increase all DA/MDA 80 feet and increase LPV visibility ¼ mile all Cats, LNAV/ VNAV visibility ¼ mile all Cats, LNAV visibility ¼ mile Cat C and D.

MISSED APPROACH: Climb to 3500 direct TOWAN and hold.

ASOS 120.775	OAKLAND CENTER 132.2 350.3	UNICOM 123.0 (CTAF) 0
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4 NM Holding Pattern	AXHEC	VGSI and RNAV glidepath not coincident	3500	TOWAN
4500	331°	151°	151°	331°
GS 3.00° TCH 40	2000	*1020	2 NM to RW15	*LNAV only
10 NM	3 NM	2 NM		
CATEGORY	A	B	C	D
LPV DA	602-1 250 (300-1)			
LNAV/VNAV DA	789-1½ 437 (500-1½)			
LNAV MDA	820-1	468 (500-1)	820-1¼ 468 (500-1¼)	820-1½ 468 (500-1½)
CIRCLING	840-1	488 (500-1)	840-1½ 488 (500-1½)	920-2 568 (600-2)

MIRL Rwy 15-33 0
REIL Rwy 15 and 33

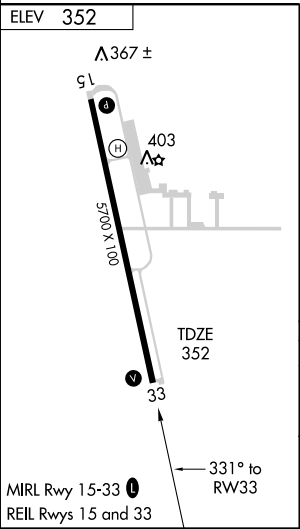
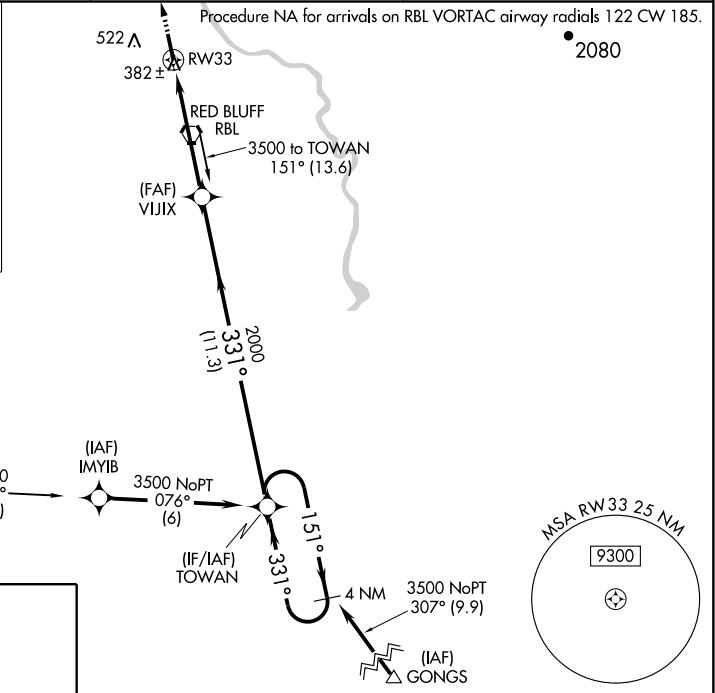
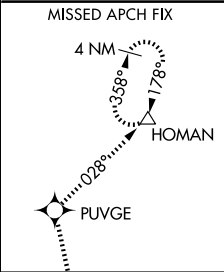
WAAS CH 42609 W33A	APP CRS 331°	Rwy Idg TDZE Apt Elev	5700 352 352
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RNAV (GPS) RWY 33
RED BLUFF MUNI (RBL)

Baro-VNAV NA when using Redding altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Redding altimeter setting and increase all DA/MDA 80 feet and increase visibilities LPV ¼ mile all Cats, LNAV/VNAV ¼ mile all Cats, and LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct PUVGE and via 028° track to HOMAN and hold.

ASOS 120.775	OAKLAND CENTER 132.2 350.3	UNICOM 123.0 (CTAF)
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4000	PUVGE	028° track	HOMAN	TOWAN	4 NM Holding Pattern
			VIJIX	151° → 3500	
				← 331°	
				2000	
				5 NM	11.3 NM
CATEGORY	A	B	C	D	
LPV DA		602-1	250 (300-1)		
LNAV/VNAV DA		718-1¼	366 (400-1¼)		
LNAV MDA	780-1	428 (500-1)	780-1¼ 428 (500-1¼)	780-1½ 428 (500-1½)	
CIRCLING	840-1	488 (500-1)	840-1½ 488 (500-1½)	920-2 568 (600-2)	

VORTAC RBL 115.7 Chan 104	APP CRS 149°	Rwy Idg 5700 TDZE 352 Apt Elev 352
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VOR/DME RWY 15
RED BLUFF MUNI (RBL)

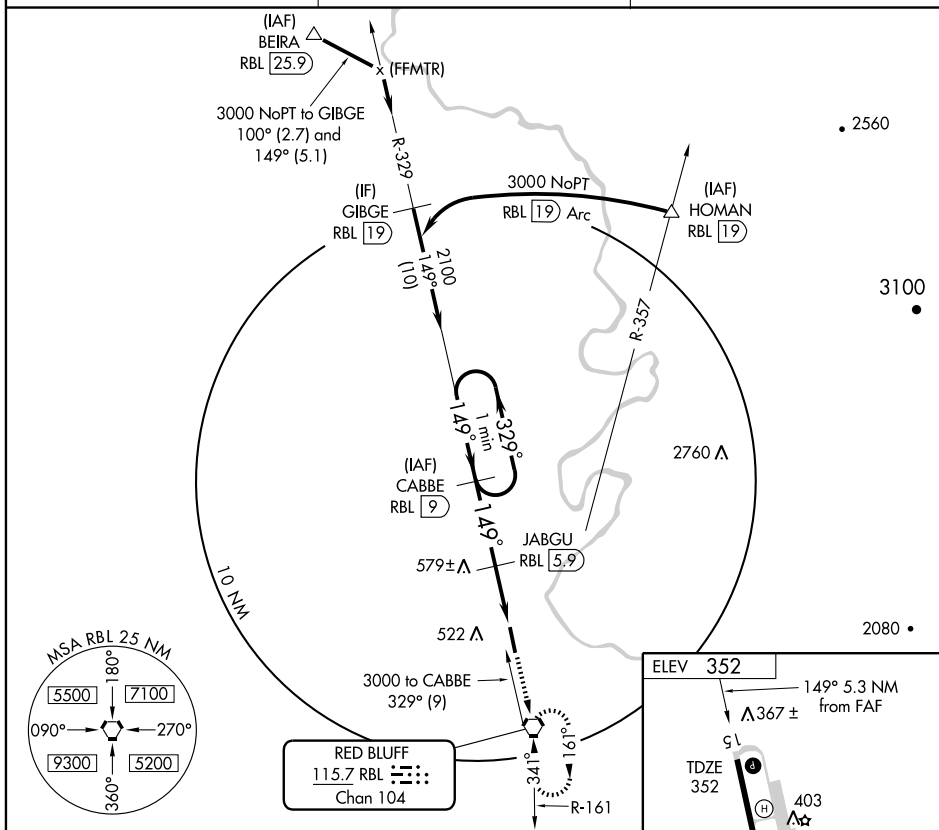
T Visibility reduction by helicopters NA.
A When local altimeter setting not received, use Redding altimeter setting and increase all MDA 80 feet, and increase visibilities S-15 Cat C and D ¼ mile.

MISSED APPROACH: Climb to 2000 direct RBL VORTAC and hold.

ASOS
120,775

OAKLAND CENTER
132.2 350.3

UNICOM
123.0 (CTAF) **L**

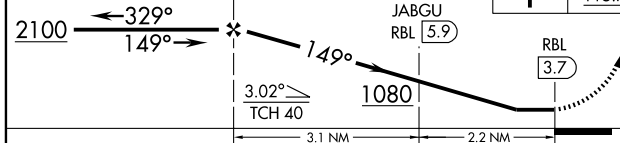


One Minute Holding Pattern

CABBE
RBL 9

VGSI and descent angles not coincident

2000

RBL


CATEGORY	A	B	C	D
S-15	840-1	488 (500-1)	840-1¼ 488 (500-1¼)	840-1½ 488 (500-1½)
CIRCLING	840-1	488 (500-1)	840-1½ 488 (500-1½)	920-2 568 (600-2)

MIRL Rwy 15-33 **L**
REIL Rwy 15 and 33

Knots	60	90	120	150	180
Min:Sec					

VORTAC RBL 115.7 Chan 104	APP CRS 328°	Rwy Idg 5700 TDZE 352 Apt Elev 352
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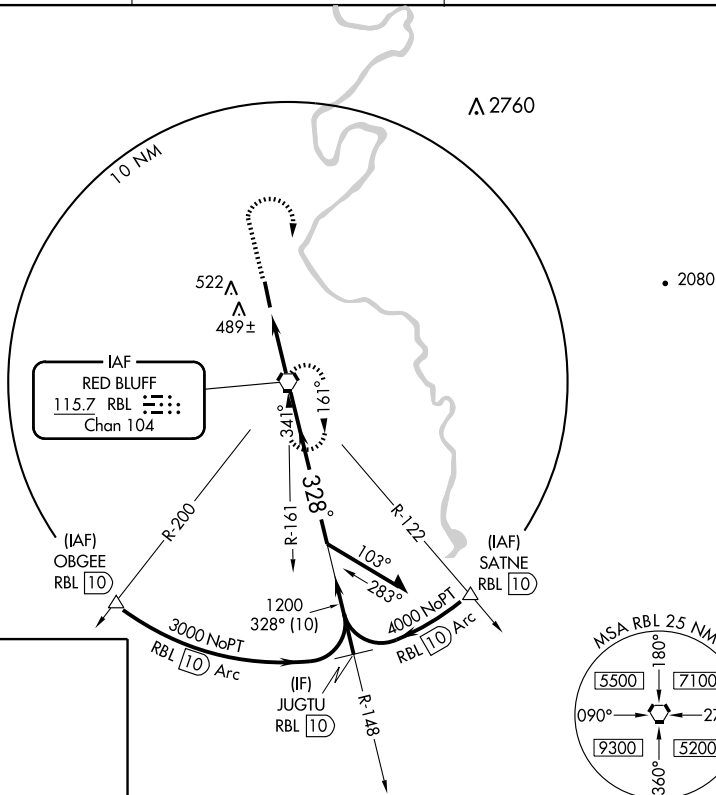
VOR RWY 33
RED BLUFF MUNI (RBL)

T Visibility reduction by helicopters NA.
A When local altimeter setting not received, use Redding altimeter setting and increase all MDA 80 feet, and increase visibilities S-33 Cat C and D $\frac{1}{4}$ mile.

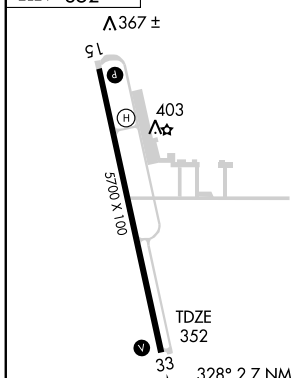
MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 direct RBL VORTAC and hold.

ASOS
120.775

OAKLAND CENTER
132.2 350.3

UNICOM
123.0 (CTAF) **L**

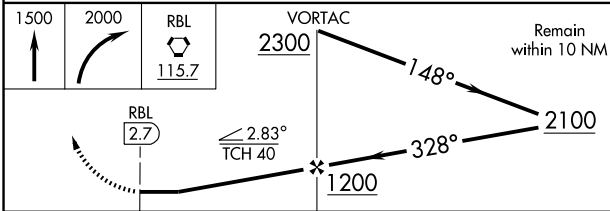
ELEV 352



MIRL Rwy 15-33 **L**
REIL Rwy 15 and 33

FAF to MAP 2.7 NM

Knots	60	90	120	150	180
Min:Sec	2:42	1:48	1:21	1:05	0:54



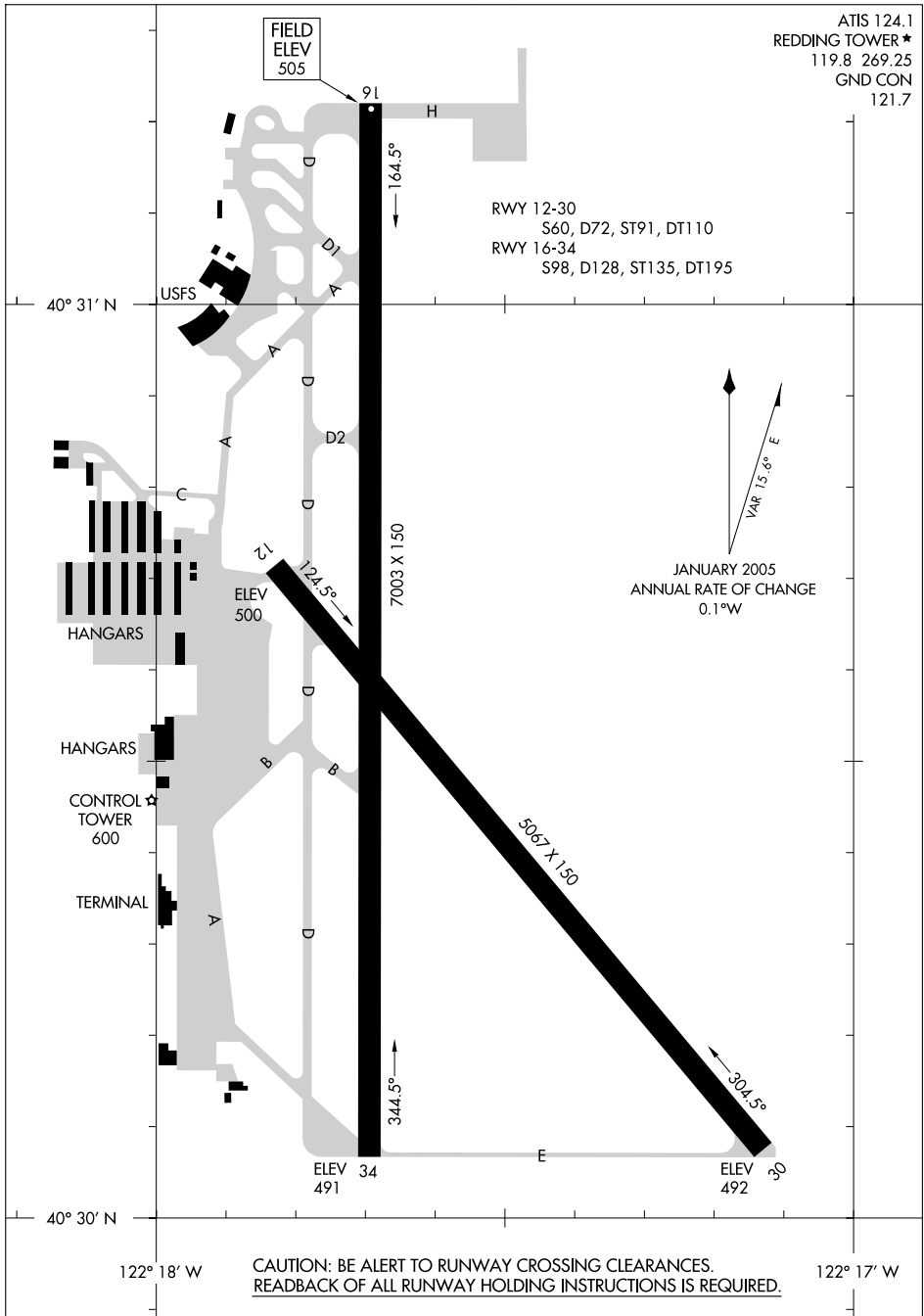
CATEGORY	A	B	C	D
S-33	740-1 388 (400-1)			740-1¼ 388 (400-1¼)
CIRCLING	840-1 488 (500-1)		840-1½ 488 (500-½)	920-2 568 (600-2)

AIRPORT DIAGRAM

AL-688 (FAA)

REDDING MUNI (RDD)

REDDING, CALIFORNIA



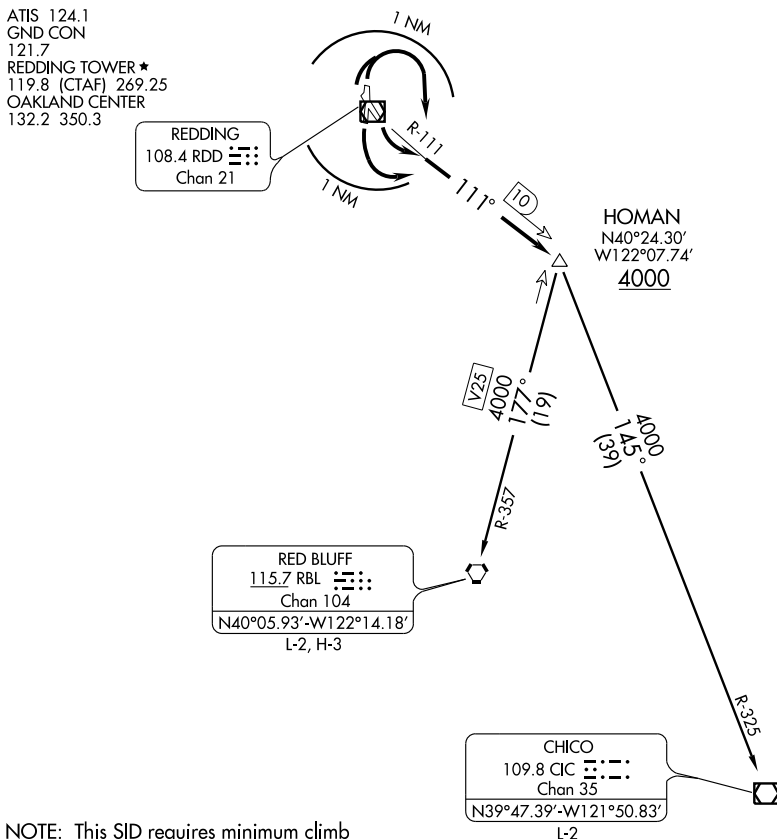
ATIS 124.1
GND CON
121.7
REDDING TOWER ★
119.8 (CTAF) 269.25
OAKLAND CENTER
132.2 350.3

REDDING
108.4 RDD
Chan 21

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

CHICO
109.8 CIC
Chan 35
N39°47.39'-W121°50.83'
L-2

HOMAN
N40°24.30'
W122°07.74'
4000



NOTE: This SID requires minimum climb
of 350' per NM to 4000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12, 16: Turn left within 1 NM, then....

TAKE-OFF RUNWAYS 30, 34: Turn right within 1 NM, then....

....Intercept the RDD R-111, direct HOMAN INT, cross HOMAN INT at or above 4000'; then via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

CHICO TRANSITION (HOMAN2.CIC): From over HOMAN INT via CIC R-325 to CIC VOR/DME.

RED BLUFF TRANSITION (HOMAN2.RBL): From over HOMAN INT via RBL R-357 to RBL VORTAC.

⚠ When local altimeter setting not received, use Red Bluff altimeter setting and increase all DAs/MDAs 80 feet, S-LOC 34 Cats. C, D, and E visibility ¼ mile, and Circling Cat. C and D visibility ¼ mile. VDP NA when using Red Bluff altimeter setting.

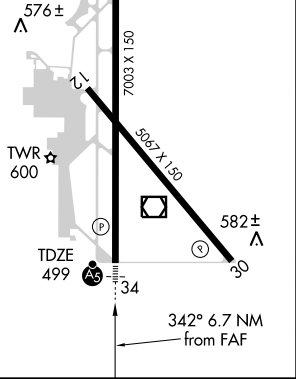
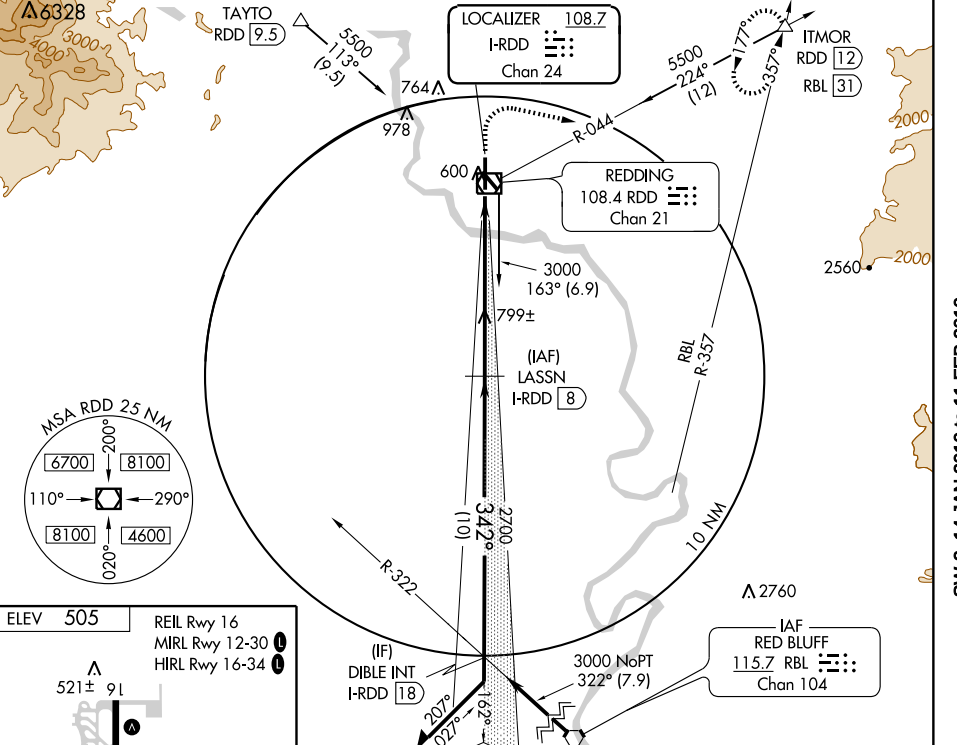
⚠ For inoperative MALSR, increase S-ILS 34 Cat. E visibility to ¾ mile, S-LOC 34 Cat. E visibility to 2¼ mile. When using Red Bluff altimeter setting increase S-ILS 34 all Cats. visibility to 1 mile, and S-LOC 34 Cat. E visibility to 2½ mile.

MALSR

⚠

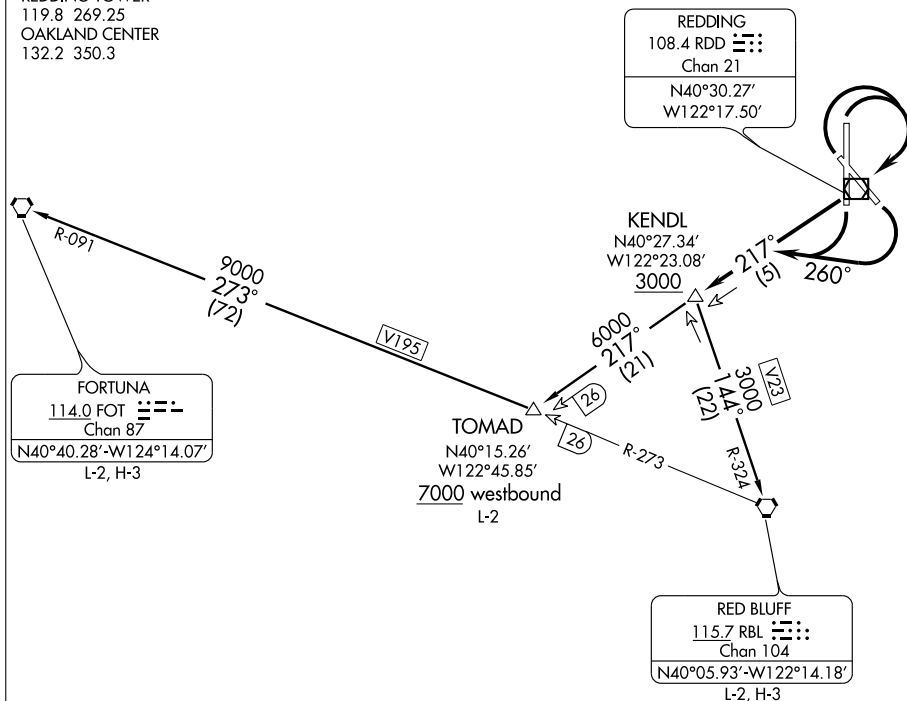
MISSED APPROACH: Climb to 1100 then climbing right turn to 5000 via heading 090° and RDD R-044 to ITMOR INT/RDD 12 DME and hold, continue climb-in-hold to 5000.

ATIS 124.1	OAKLAND CENTER 132.2 350.3	REDDING TOWER ★ 119.8(CTAF) 269.25	GND CON 121.7	UNICOM 122.95
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1100 ↑		5000 ↻ HDG 090°		RDD R-044 108.4		ITMOR △		Use I-RDD DME when on the localizer course. VGSI and ILS glidepath not coincident.					
								LASSN I-RDD (8)		DIBLE INT I-RDD (18)		Remain within 15 NM	
								2700		162°		3000	
								I-RDD (1.3)		I-RDD (3.2)		342°	
								2700		3000		GS 3.00° TCH 52	
								1.9 NM		4.8 NM		10 NM	
CATEGORY		A		B		C		D		E			
S-ILS 34						699-½ 200 (200-½)							
S-LOC 34		1140-½ 641 (700-½)		1140-1¼ 641 (700-1¼)		1140-1½ 641 (700-1½)		1140-1¾ 641 (700-1¾)					
CIRCLING		1140-1 635 (700-1)		1140-1¾ 635 (700-1¾)		1140-2 635 (700-2)		1340-3 835 (900-3)					

ATIS 124.1
GND CON
121.7
REDDING TOWER★
119.8 269.25
OAKLAND CENTER
132.2 350.3



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12 and 16: Cats. A and B: turn right heading 260° to intercept and proceed via the RDD R-217 to KENDL INT. Cross KENDL INT at or above 3000, thence via (transition) or (assigned route). Cats. C and D: not authorized.

TAKE-OFF RUNWAYS 30 and 34: Turn right to cross RDD VOR/DME and proceed via the RDD R-217 to KENDL INT. Cross KENDL INT at or above 3000 thence via (transition) or (assigned route).

FORTUNA TRANSITION (KENDL1.FOT): From over KENDL INT via RDD R-217 to TOMAD INT, thence via RBL R-273 and FOT R-091 to FOT VORTAC.

RED BLUFF TRANSITION (KENDL1.RBL): From over KENDL INT via RBL R-324 to RBL VORTAC.

TOMAD TRANSITION (KENDL1.TOMAD): From over KENDL INT via RDD R-217 to TOMAD INT.

KREST THREE DEPARTURE

SL-688 (FAA)

REDDING MUNI (RDD)
REDDING, CALIFORNIA

ATIS 124.1
GND CON
121.7
REDDING TOWER ★
119.8 (CTAF) 269.25
OAKLAND CENTER
132.2 350.3

SHATA
N40°39.20'
W122°28.04'
L-2
8000
northwestbound
on V23

KREST
N40°41.97'
W122°13.95'
4000

ITMOR
N40°35.87'
W122°03.66'
L-2
7000
northbound
on V25

TOMAD
N40°15.26'
W122°45.85'
L-2

(SIPJY)
N40°23.45'
W122°30.44'

REDDING
108.4 RDD
Chan 21

RED BLUFF
115.7 RBL
Chan 104

NOTE: Rwsy 12, 16 and 30 departures require minimum climb of 300' per NM to 4000'.

NOTE: Rwy 34 departure requires minimum climb of 320' per NM to 4000'.

NOTE: DME required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 12 and 16: Turn left immediately after departure to intercept and proceed via the RDD R-355 to KREST DME Fix. Cross KREST DME Fix at or above 4000, thence via (transition) or (assigned route).

TAKE-OFF RUNWAYS 30 and 34: Turn right immediately after departure to intercept and proceed via RDD R-355 to KREST DME Fix. Cross KREST DME Fix at or above 4000, thence via (transition) or (assigned route).

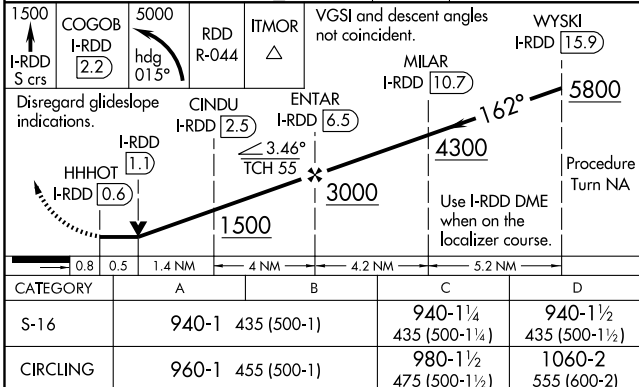
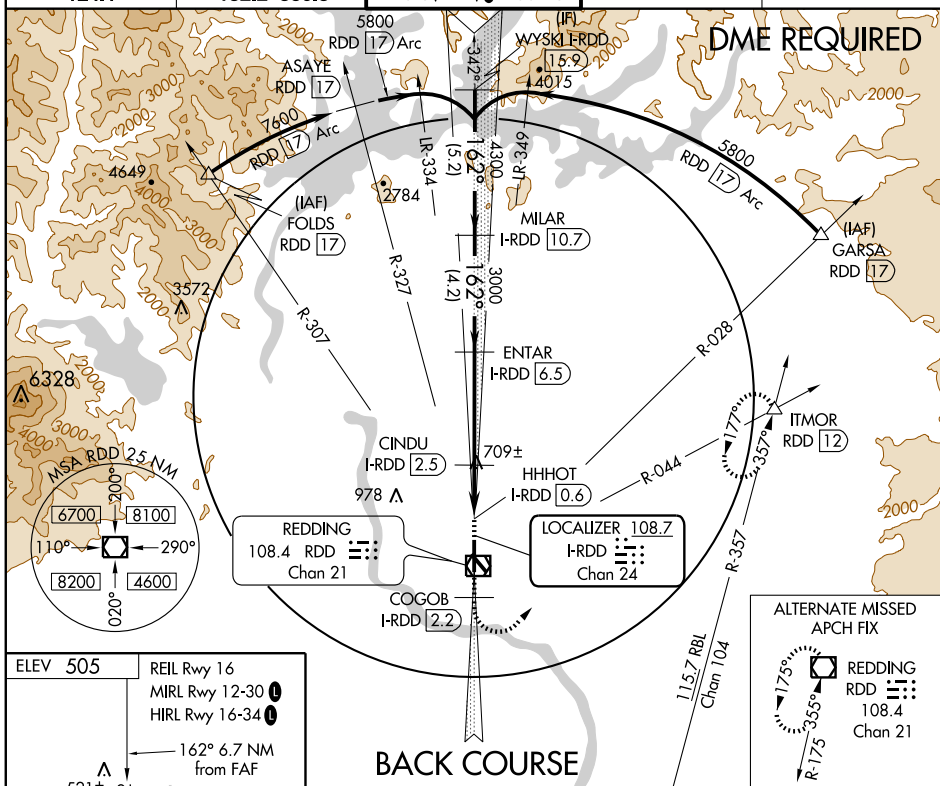
ITMOR TRANSITION (KREST3.ITMOR): From over KREST DME Fix via RDD 12 DME Arc clockwise to ITMOR INT.

SHATA TRANSITION (KREST3.SHATA): From over KREST DME Fix via RDD 12 DME Arc counterclockwise to SHATA INT.

TOMAD TRANSITION (KREST3.TOMAD): From over KREST DME Fix via RDD 12 DME Arc counterclockwise to RDD R-217, thence via RDD R-217 to TOMAD INT.

LOC/DME BC RWY 16
REDDING MUNI (RDD)

MISSED APPROACH: Climb to 1500 via I-RDD S course to COGOB/I-RDD 2.2 DME then climbing left turn to 5000 via heading 015° and RDD R-044 to ITMOR INT/RDD 12 DME and hold, continue climb-in-hold to 5000.

UNICOM
122.95

RNAV (GPS) RWY 34
REDDING MUNI (RDD)

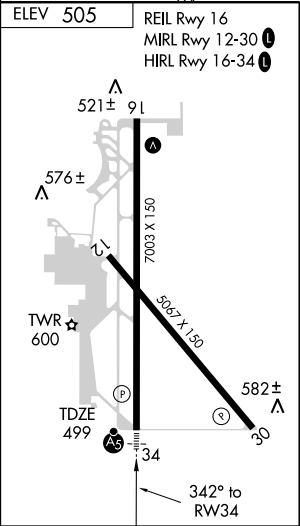
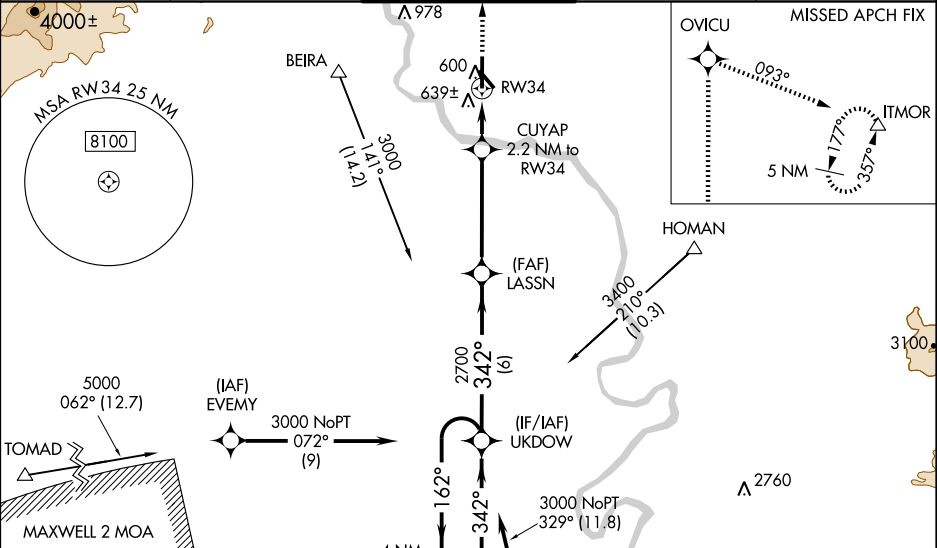
WAAS CH 56402 W34A	APP CRS 342°	Rwy Idg TDZE Apt Elev	7003 499 505
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⚠ DME/DME RNP-0.3 NA. Circling to Rwy 12 NA at night. For inoperative MALSR, increase LPV all Cats. visibility to 1 ¼ mile. When using Red Bluff altimeter setting increase LPV all Cats. visibility to 1 ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C(4°F) or above 48°C (118°F). VDP and Baro-VNAV NA when using Red Bluff altimeter setting. When local altimeter setting not received, use Red Bluff altimeter setting and increase all DAs/MDAs 80 feet, and increase LPV visibility ¼ mile all Cats., LNAV/VNAV visibility ¼ mile all Cats., and LNAV visibility Cat. C/D ¼ mile.

MALSR


MISSED APPROACH:
Climb to 5000 direct
OVICU and right
turn via 093° track
to ITMOR and
hold, continue
climb-in-hold to 5000.

ATIS 124.1	OAKLAND CENTER 132.2 350.3	REDDING TOWER ★ 119.8(CTAF) 0 269.25	GND CON 121.7	UNICOM 122.95
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4 NM Holding Pattern		VGSI and RNAV glidepath not coincident.		5000 ↑	OVICU ✧	093° track ↷	ITMOR △
UKDOW		LASSN		CUYAP 2.2 NM to RW34		* LNAV only	
3000 ← 162° 342° →		342°		* 1.2 NM to RW34		RW34	
GS 3.00° TCH 52		2700		* 1240			
		6 NM		4.5 NM		1 NM	
				1.2 NM			
CATEGORY	A	B	C	D			
LPV DA	790-½		291 (300-½)				
LNAV/ VNAV DA	944-1		445 (500-1)				
LNAV MDA	940-½	441 (500-½)	940-¾ 441 (500-¾)		940-1 441 (500-1)		
CIRCLING	1000-1	495 (500-1)	1000-½ 495 (500-½)		1060-2 555 (600-2)		

VOR RWY 34
REDDING MUNI (RDD)

VOR/DME RDD	APP CRS	Rwy Idg	7003
108.4	355°	TDZE	496
Chan 21		Apt Elev	502

V Cat. D S-34 DME minimums visibility increased ¼ mile for inoperative MALSR.

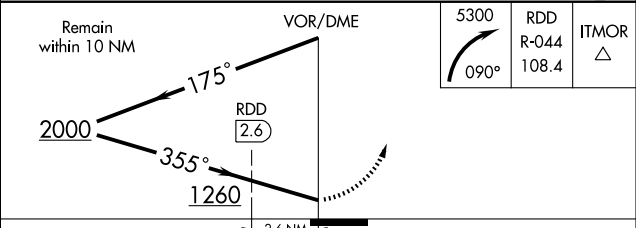
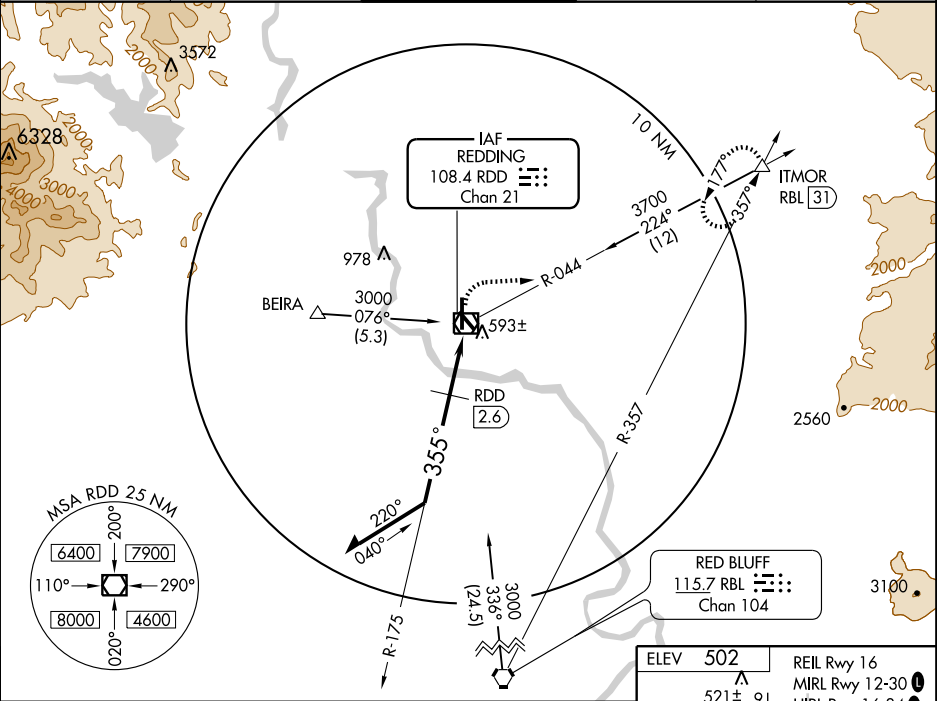
A

MALSR

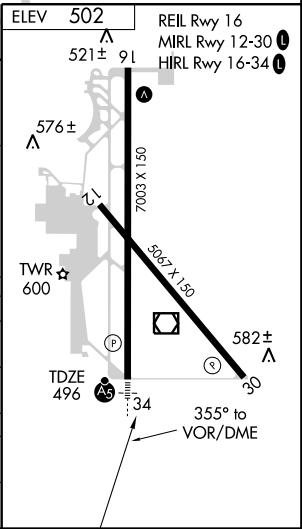
A5

MISSED APPROACH: Climbing right turn to 5300 via heading 090° and RDD R-044 to ITMOR INT and hold.

ATIS 124.1	OAKLAND CENTER 132.2 350.3	REDDING TOWER ★ 119.8(CTAF) 269.25	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-34	1260-½ 764 (800-½)	1260-¾ 764 (800-¾)	1260-1¾ 764 (800-1¾)	1260-2 764 (800-2)
CIRCLING	1260-1 758 (800-1)	1260-1¼ 758 (800-1¼)	1260-2¼ 758 (800-2¼)	1260-2½ 758 (800-2½)
DME MINIMUMS				
S-34	860-½ 364 (400-½)			860-1 364 (400-1)
CIRCLING	920-1 418 (500-1)	960-1 458 (500-1)	960-1½ 458 (500-1½)	1060-2 558 (600-2)



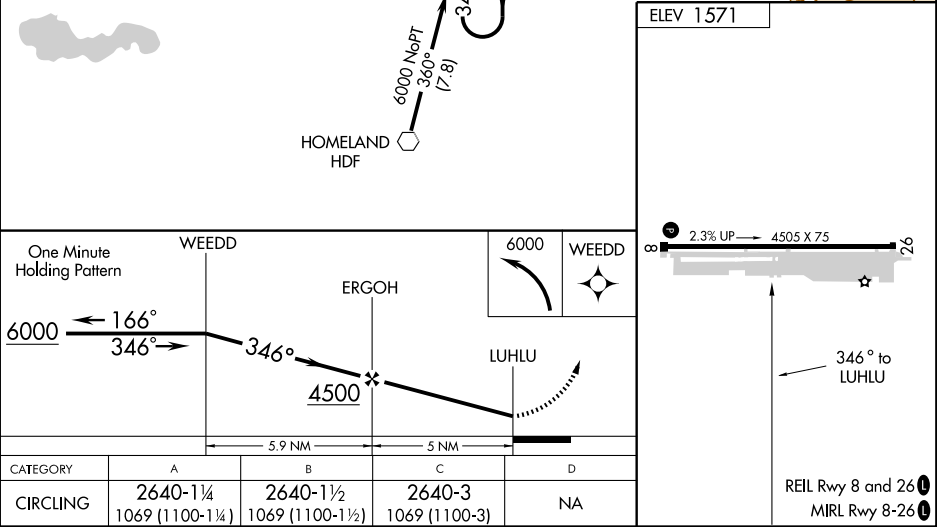
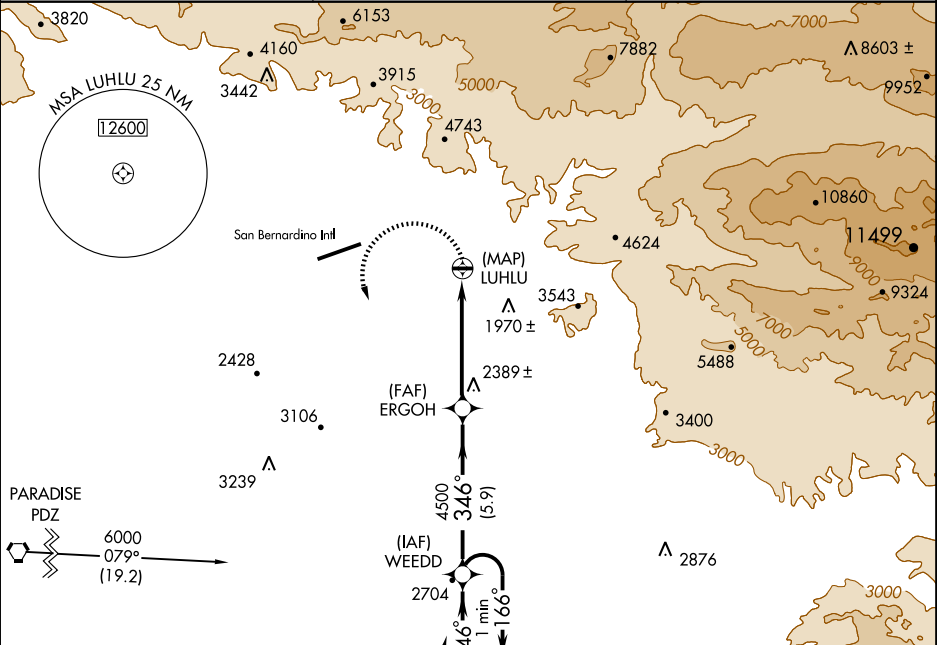
APP CRS	Rwy Idg	N/A
346°	TDZE	N/A
	Apt Elev	1571

GPS-A
REDLANDS MUNI (REI)

▼ Use San Bernardino Intl altimeter setting; when not received, use Ontario Intl altimeter setting and increase all MDAs 160 feet.
▲ NA Procedure not authorized at night.

MISSED APPROACH: Climbing left turn to 6000 direct WEEDD WP and hold.

AWOS-3 123.050	SOCAL APP CON 127.25 318.2	UNICOM 123.05 (CTAF) 0
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NDB SB	APP CRS	Rwy Idg	N/A
<u>397</u>	323°	TDZE	N/A
		Apt Elev	1455

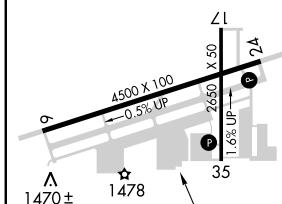
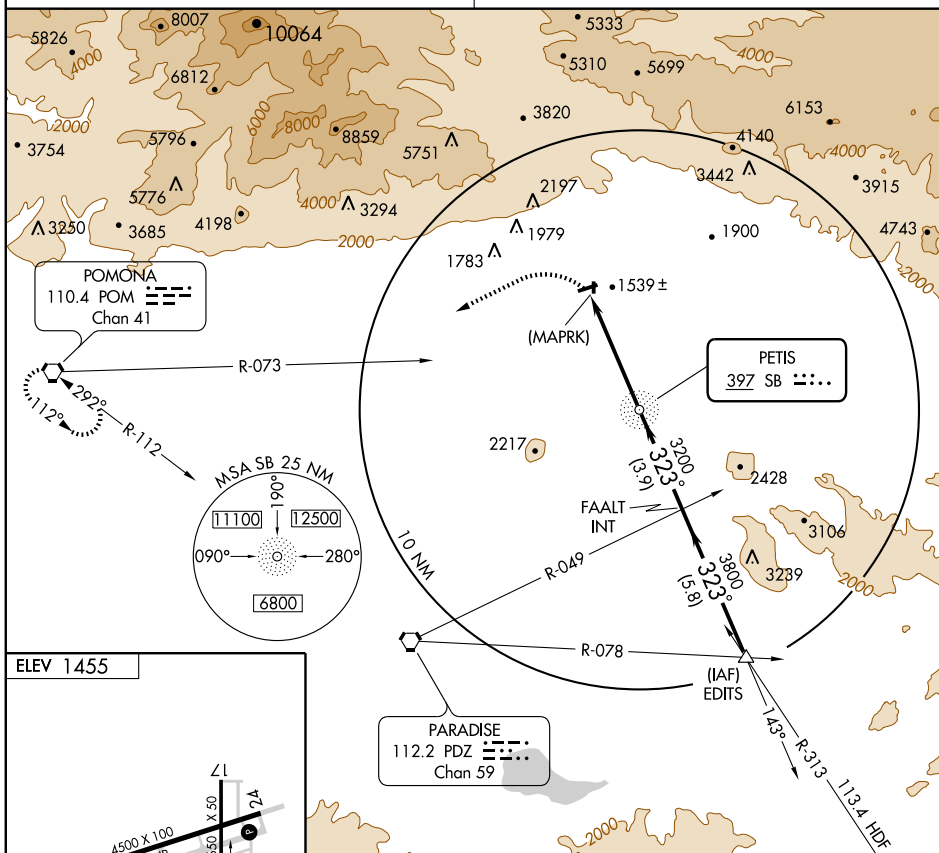
NDB or GPS-A

RIALTO MUNI (MIRO FIELD) (L67)



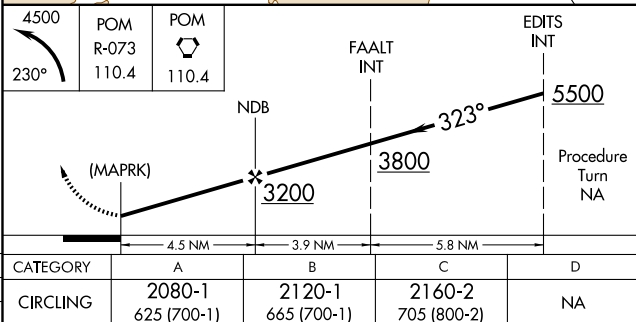
MISSED APPROACH: Climbing left turn to 4500 via heading 230° and POM R-073 to POM VORTAC and hold.

SOCAL APP CON
127.25 318.2

UNICOM
122.8 (CTAF) **L**

323° 4.5 NM
from FAF

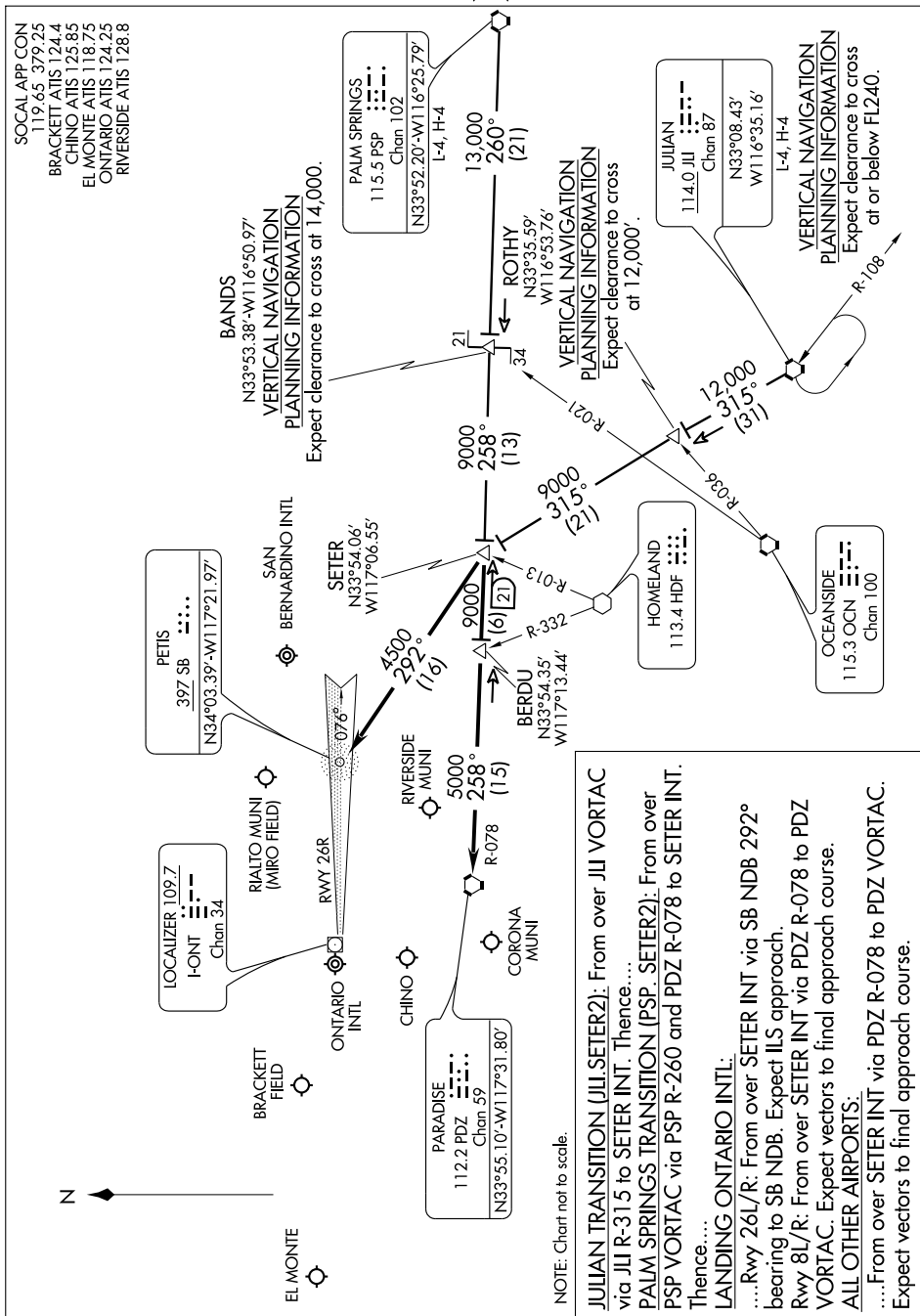
REIL Rwy 6 and 24
MIRL Rwy 6-24 and 17-35



SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA



ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

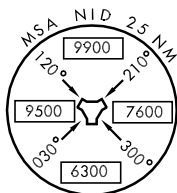
CHINA 4 • CHINA)

SL-914 [USN]

CHINA FOUR DEPARTURE ROUTE (RIDGECREST, CALIFORNIA)

ATIS ★ 322.375
CLNC DEL
274.7
GND CON
360.2
CHINA LAKE TOWER ★
120.15 340.2
JOSHUA DEP CON
133.65 348.7

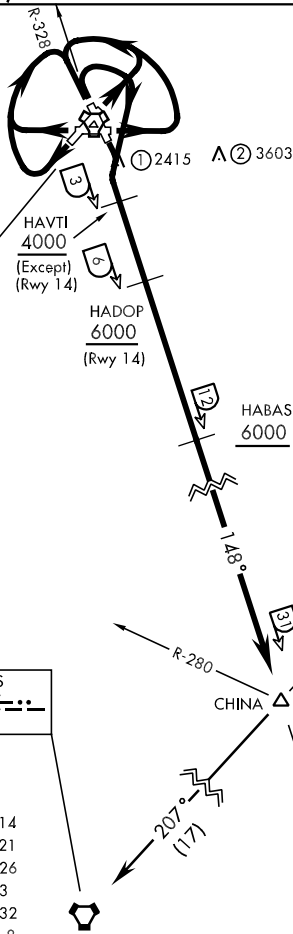
CHINA LAKE
Chan 53 NID



EDWARDS
116.4 EDW
Chan 111
L-7

HECTOR
112.7 HEC
Chan 74
L-7

- ① 145° 0.9 NM from DER 14
- ② 082° 5.4 NM from DER 21
- 087° 5.3 NM from DER 26
- 099° 4.6 NM from DER 3
- 099° 5.0 NM from DER 32
- 091° T 4.0 NM from DER 8



	Rwy	Knots	60	120	180	240
* 3	ⓐ ⓑ	V/V(fpm)	360	720	1080	1440
* 3	ⓑ ⓓ	V/V(fpm)	400	800	1200	1600
* 8	ⓐ ⓔ	V/V(fpm)	390	780	1170	1560
* 8	ⓑ ⓓ	V/V(fpm)	450	900	1350	1800
* 14	ⓐ ⓖ	V/V(fpm)	250	500	750	1000
* 14	ⓑ ⓓ	V/V(fpm)	260	520	780	1040
* 21	ⓐ ⓓ	V/V(fpm)	300	600	900	1200
* 21	ⓑ ⓓ	V/V(fpm)	330	660	990	1320
* 26	ⓐ ⓓ	V/V(fpm)	310	620	930	1240
* 26	ⓑ ⓓ	V/V(fpm)	340	680	1020	1360
* 32	ⓐ ⓓ	V/V(fpm)	330	660	990	1320
* 32	ⓑ ⓓ	V/V(fpm)	370	740	1110	1480
† 14	ⓓ	V/V(fpm)	730	1460	2190	2920

* Minimum † ATC Climb Rate

- ⓐ Military ⓑ Civil ⓒ to 4700 ⓓ to 4900
- ⓔ to 3800 ⓕ to 4100 ⓖ to 3300 ⓓ to 3400
- ⓓ to 3900 ⓓ to 6000 Not for Civil use.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb to 2700 via heading 029°, then climbing left turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence.....

TAKE-OFF RWY 8: Climb to 2700 via heading 077°, then climbing left turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence

TAKE-OFF RWY 21: Climb to 2700 via heading 209°, then climbing right turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence

TAKE-OFF RWY 26: Climb to 2700 via heading 257°, then climbing right turn within 4 DME to intercept R-328 direct NID TACAN and proceed via R-148 to CHINA. Thence.....

TAKE-OFF RWY 32: Climb to 2700 via heading 321°, then climbing right turn within 3 DME to intercept R-148 to CHINA. Thence.....

(CONTINUED ON NEXT PAGE)



(CONTINUED FROM PRECEDING PAGE)

DEPARTURE ROUTE DESCRIPTION

Cross HAVTI at or above 4000. Cross HABAS at or above 6000. Cross CHINA at assigned altitude.

TAKE OFF RWY 14: Climbing right turn to intercept NID R-148 to CHINA. Cross HADOP at or above 6000. Cross CHINA at assigned altitude.

ALL RWYS: Max departure speed 250 KIAS until established on R-148. From CHINA, proceed via assigned transition or expect radar vectors to join assigned route.

EDWARDS TRANSITION (CHINA4•EDW): Via EDW R-027 to EDW. Expect radar vectors to join assigned route.

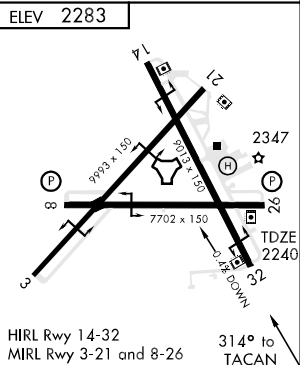
HECTOR TRANSITION (CHINA4•HEC): Via HEC R-280 to HEC.

SW-3, 14 JAN 2010 to 11 FEB 2010

JAL-914 [USN] CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

* MISSED APPROACH: Climbing left turn to 6500, intercept NID R-192 to RANDS and hold.

* CAUTION: Missed Approach
Minimum Climb Rate to 6500

Controlling Obstacle 4999'

APCH CRS
320°

Rwy Idg
TDZE
2240

Arpt Elev
2283

AL-914 [USN]

CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

▼ RNP-0.3 or GPS required
DME/DME RNP-0.3 NA.
Baro VNAV NA below -19.57°C (-3.22°F).

* MISSED APPROACH: Climb to 6500 direct WERUS,
then climbing left turn direct RANDS and hold.

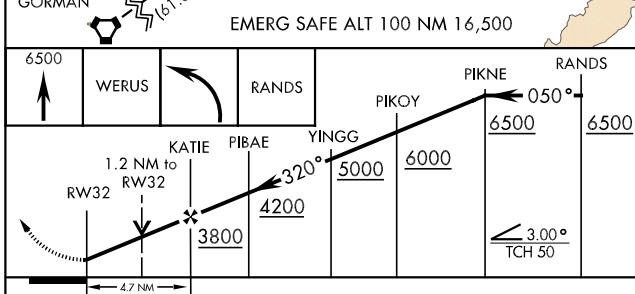
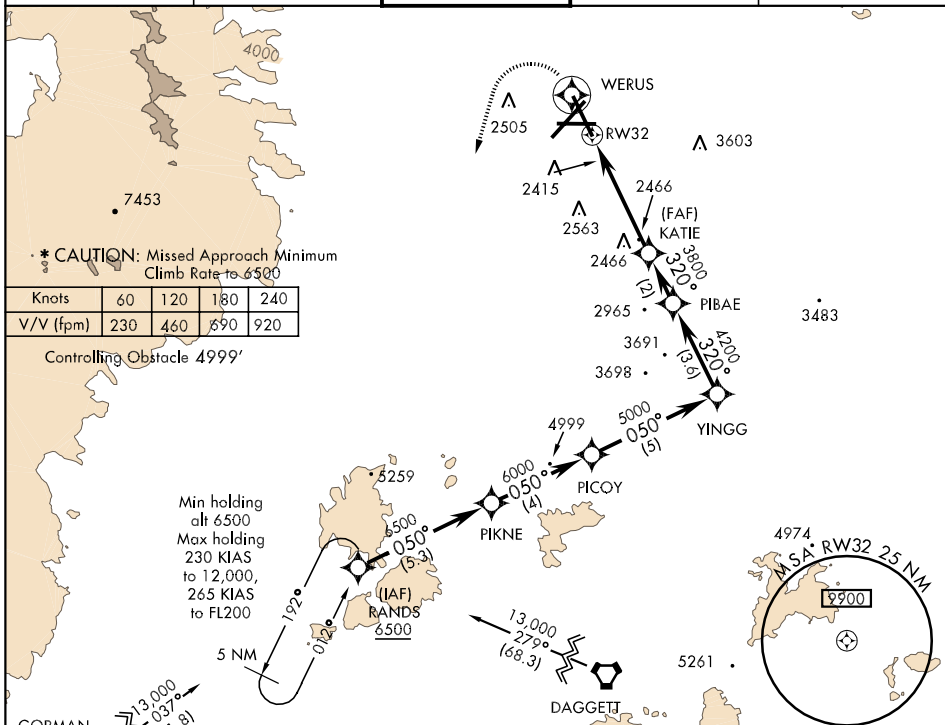
ATIS ★
322.375

JOSHUA APP CON
133.65 348.7

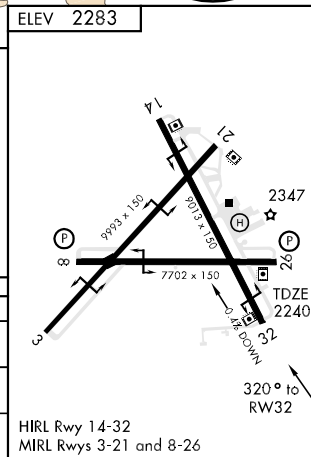
CHINA LAKE TOWER ★
120.15 340.2

GND CON
360.2

CLNC DEL
274.7



CATEGORY	A	B	C	D
LNAV MDA	2680-1 440 (400-1)	2680-1½ 440 (400-1½)	2680-1½ 440 (400-1½)	2680-1½ 440 (400-1½)
LNAV/VNAV DA	2720-1 480 (500-1)	2720-1½ 480 (500-1½)	2720-1½ 480 (500-1½)	2720-1½ 480 (500-1½)
CIRCLING	2720-1 437 (500-1)	2740-1 457 (500-1)	2740-1½ 457 (500-1½)	2840-2 557 (600-2)



SALTD-THREE HI DEPARTURE (SALTD 3 • SALTD)

RIDGECREST, CALIFORNIA

ATIS ★322.375

CLNC DEL

274.7

GND CON

360.2

CHINA LAKE TOWER ★

120.15 340.2

JOSHUA DEP CON

133.65 348.7

SH-914 [USN]

Rwy	Knots	120	180	240	300	360
†21 Ⓞ	V/V(fpm)	1360	2040	2720	3400	4080

† ATC Climb Rate

Ⓞ to 15,000

NOT FOR CIVIL USE

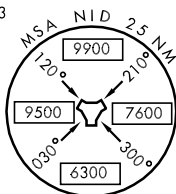
CHINA LAKE
Chan 53 NID

H-3

FAMAK
5000

3603

2563



R-283

SALTD

15,000
5428

103°
(85)

212°
(58)

R-032

GORMAN
116.1 GMN

Chan 108

H-3

HECTOR
112.7 HEC

Chan 74

H-3

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 21: Climb via NID R-212 to SALTD. From SALTD, proceed via assigned transition or expect radar vectors to join assigned route. Cross FAMAK at or above 5000. Cross SALTD at or above 15,000.

GORMAN TRANSITION (SALTD 3 • GMN): Via GMN R-032 to GMN.

HECTOR TRANSITION (SALTD 3 • HEC): Via HEC R-283 to HEC.

SALTD-THREE HI DEPARTURE (SALTD 3 • SALTD)

RIDGECREST, CALIFORNIA

SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN Chan 53	APCH CRS 314°	Rwy Idg TDZE Arpt Elev	9013 2240 2283
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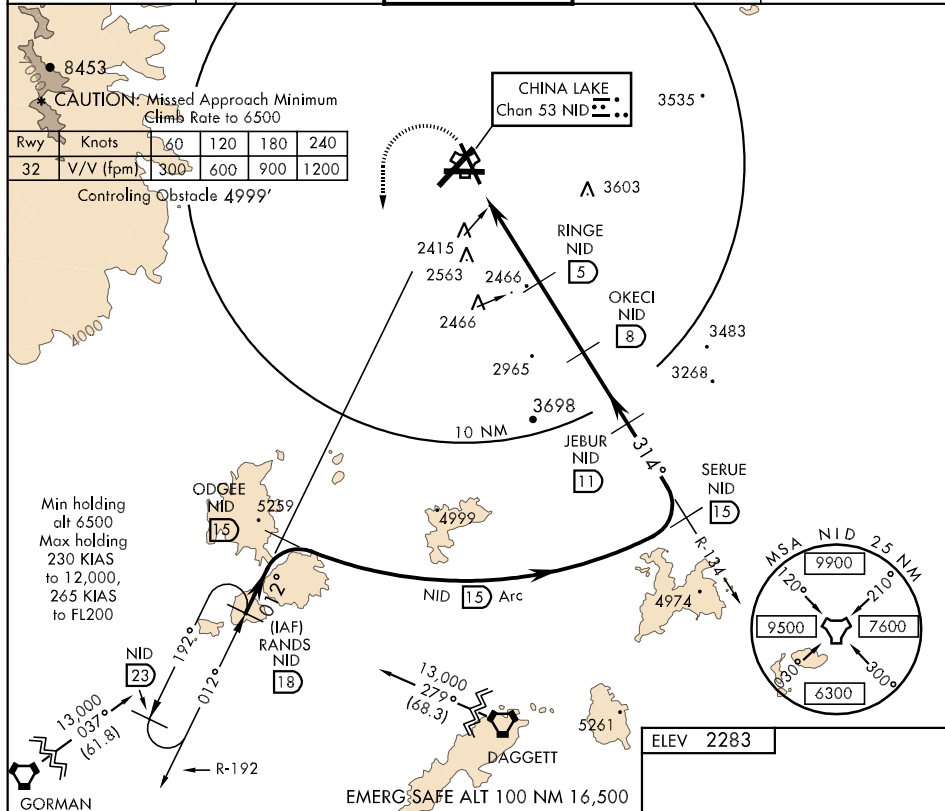
AL-914 [USN]

CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)



* MISSED APPROACH: Climbing left turn to 6500, intercept NID R-192 to RANDS and hold.

ATIS ★ 322.375	JOSHUA APP CON 133.65 348.7	CHINA LAKE TOWER ★ 120.15 340.2	GND CON 360.2	CLNC DEL 274.7
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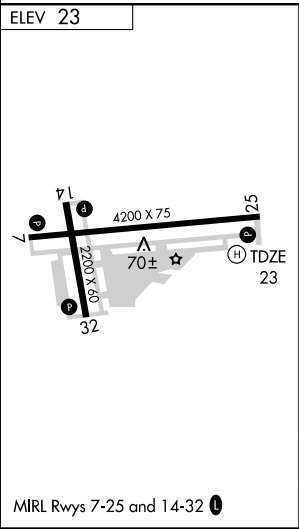
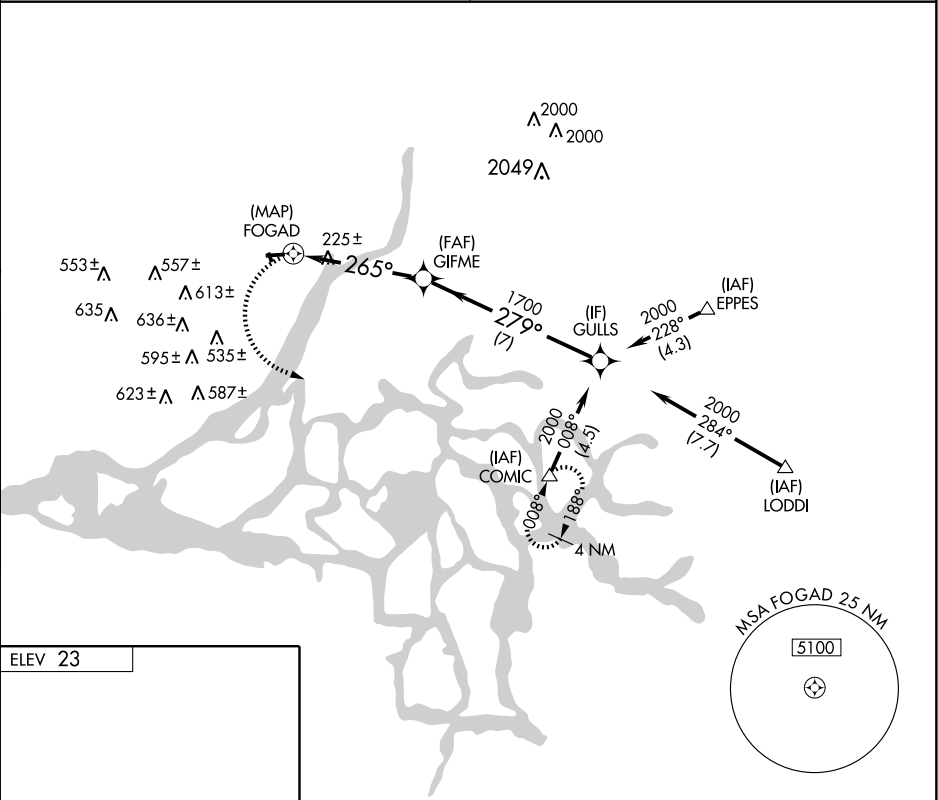
CATEGORY	A	B	C	D
S-32	2680-1 440 (400-1)		2680-1½ 440 (400-1½)	2680-1½ 440 (400-1½)
CIRCLING	2720-1 437 (500-1)	2740-1 457 (500-1)	2740-1½ 457 (500-1½)	2840-2 557 (600-2)

APP CRS	Rwy Idg	4200
265°	TDZE	23
	Apt Elev	23

RNAV (GPS) RWY 25

RIO VISTA MUNI (088)

▼ ▲ NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Travis AFB altimeter setting.	MISSED APPROACH: Climbing left turn to 2000 direct COMIC and hold.
NORCAL APP CON 125.25 257.9	UNICOM 122.725 (CTAF) 0



2000	COMIC △	VGSI and descent angles not coincident.		Procedure Turn NA
		FOGAD	GIFME	GULLS
		265°	1700	279° 2000
		0.3	4.8 NM	7 NM
CATEGORY	A	B	C	D
LNAV MDA	560-1	537 (600-1)	560-1½ 537 (600-1½)	NA
CIRCLING	560-1 537 (600-1)	580-1 557 (600-1)	620-1½ 597 (600-1½)	NA

VORTAC SAC 115.2 Chan 99	APP CRS 189°	Rwy Idg TDZE Apt Elev	N/A N/A 23
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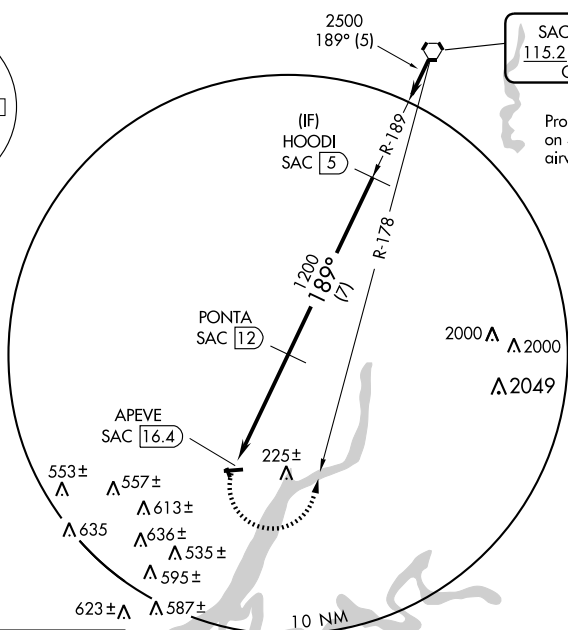
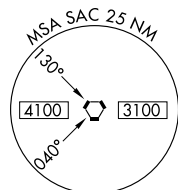
VOR/DME-A
RIO VISTA MUNI (088)

T	
A NA	Use Travis AFB altimeter setting.

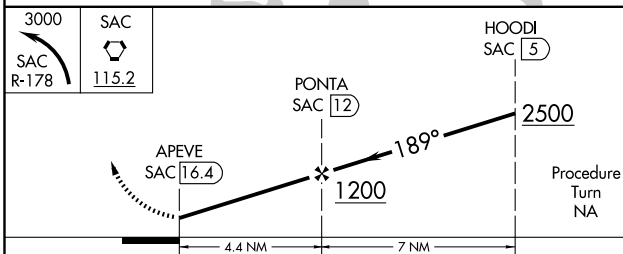
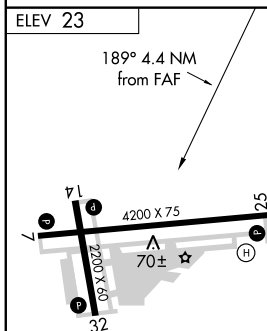
MISSED APPROACH: Climbing left turn to 3000 via SAC VORTAC R-178 to SAC VORTAC.

NORCAL APP CON
125.25 257.9

UNICOM
122.725 (CTAF) **L**



Procedure NA for arrivals
on SAC VORTAC
airway radials 137 CW 216.



Procedure
Turn
NA

MIRL Rwy 7-25 and 14-32 **L**

CATEGORY	A	B	C	D
CIRCLING	560-1 537 (600-1)	580-1 557 (600-1)	620-1½ 597 (600-1½)	NA

AIRPORT DIAGRAM

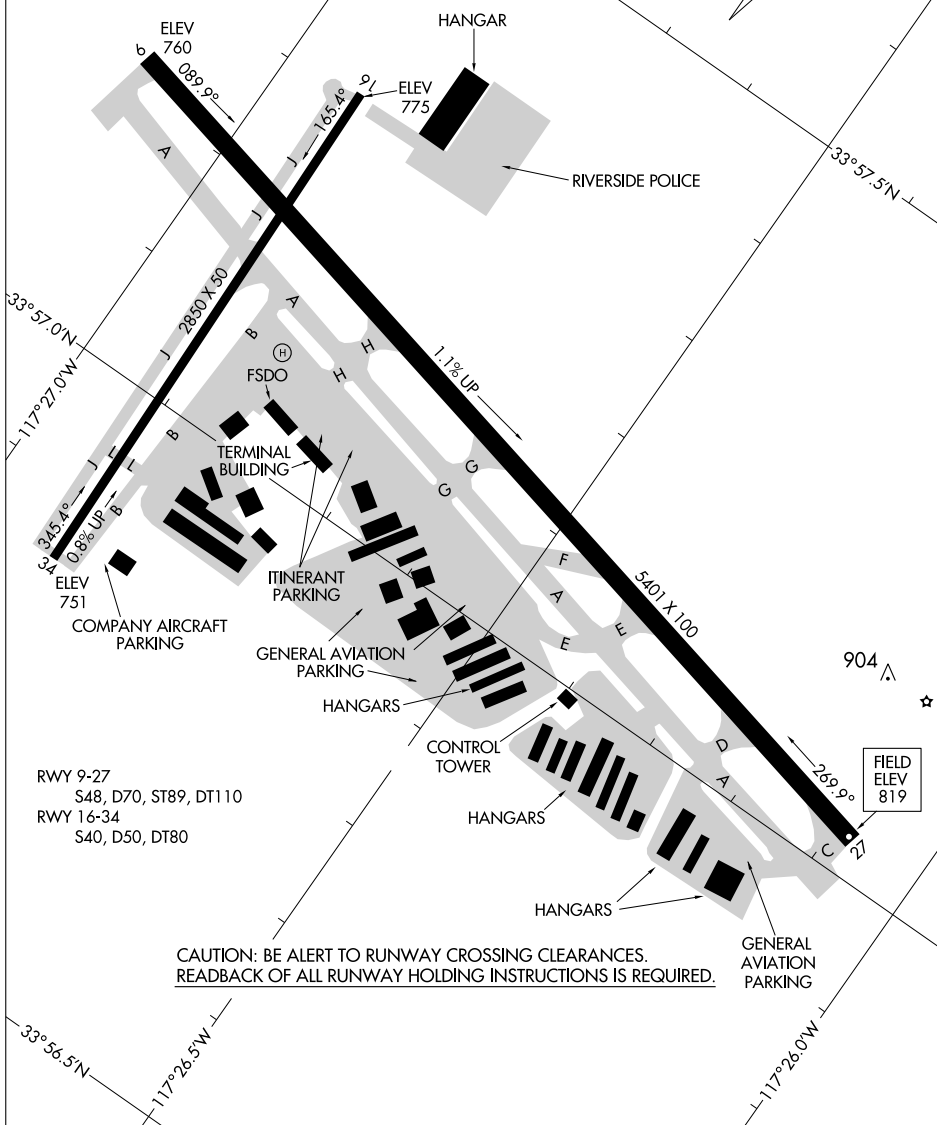
AL-769 (FAA)

RIVERSIDE MUNI (RAL)
RIVERSIDE, CALIFORNIA

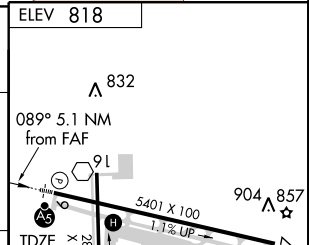
ATIS 128.8
RIVERSIDE TOWER ★
121.0 257.8
GND CON
121.7

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

VAR 13.1° E



ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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REIL Rwy 27
MIRL Rwy 9-27 and 16-34

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

⚠ Circling NA for Cat D north of Rwy 9-27.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (117°F).

When local altimeter setting not received, use Chino altimeter setting and increase all DAs/MDAs 60 feet, and LPV and LNAV/VNAV all visibilities ¼ mile. VDP and Baro-VNAV NA when using Chino altimeter setting.

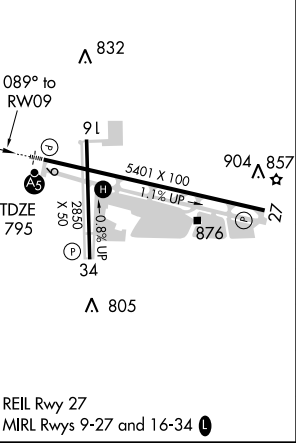
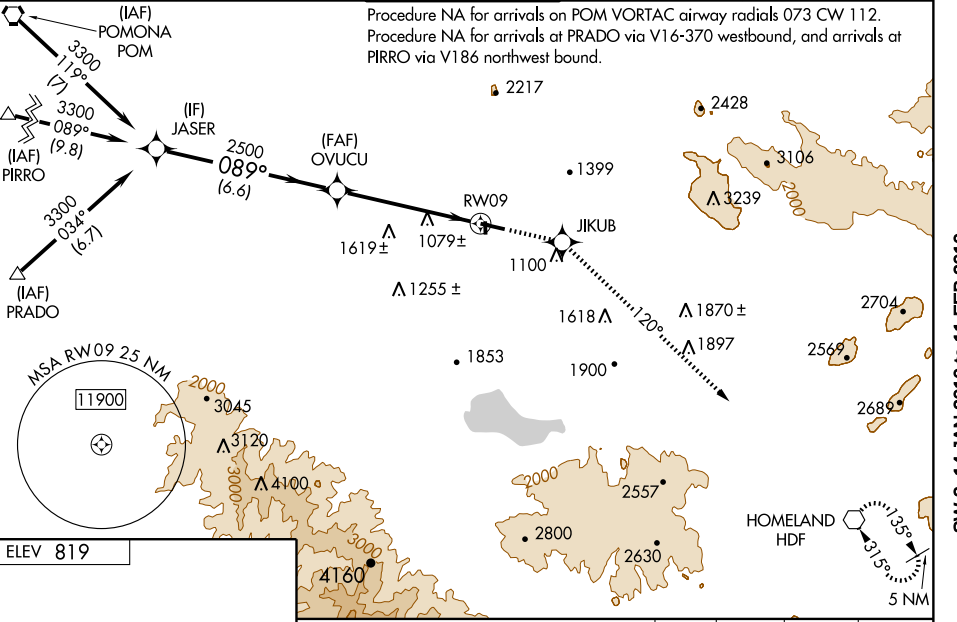
When VGSI inoperative, circling to Rwy 34 NA at night.

For inoperative MALSR, increase LPV all Cats visibility to 1¼. When using Chino altimeter setting increase LPV all Cats visibility to 1½.

MALSR

MISSED APPROACH: Climb to 6000 direct JIKUB and via 120° track to HDF VOR and hold, continue climb-in-hold 6000.

ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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Procedure Turn NA	JASER	OVUCU	JIKUB	HDF
3300	089°	2500	120° track	
GS 3.00° TCH 41	6.6 NM	2.3 NM	3 NM	
CATEGORY	A	B	C	D
LPV DA	1120-¾ 325 (400-¾)			
LNAV/VNAV DA	1473-2 678 (700-2)			
LNAV MDA	1760-¾ 965 (1000-¾)	1760-1 965 (1000-1)	1760-2½ 965 (1000-2½)	
CIRCLING	1760-1¼ 941 (1000-1¼)	1760-1½ 941 (1000-1½)	1760-3 941 (1000-3)	

REIL Rwy 27
MIRL Rwy 9-27 and 16-34

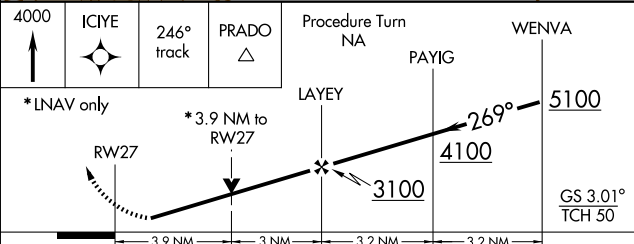
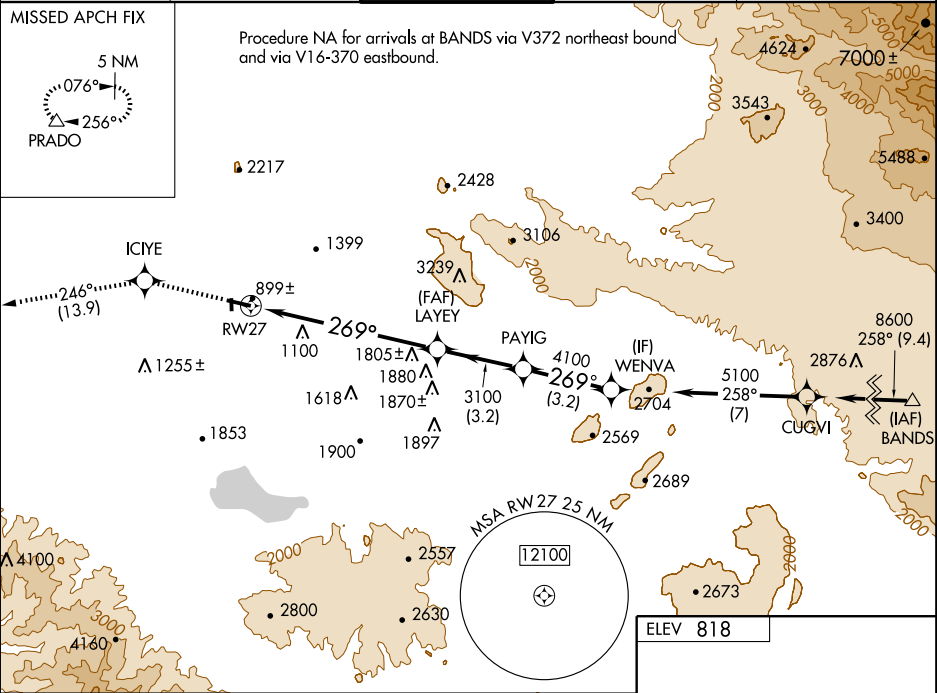
RNAV (GPS) RWY 27
RIVERSIDE MUNI (RAL)

WAAS CH 82201 W27A	APP CRS 269°	Rwy Idg TDZE Apt Elev	5401 818 818
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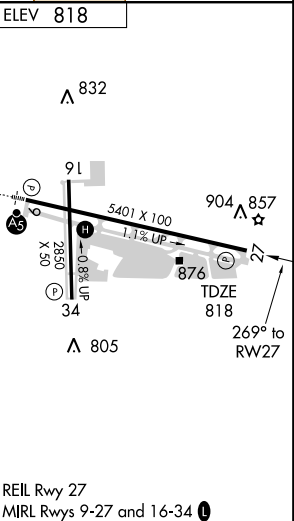
⚠ DME/DME RNP -0.3 NA.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 46°C (116°F).
Circling NA for Cat D north of Rwy 9-27.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4000 direct ICIYE and via 246° track to PRADO and hold.

ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	1236-1½ 418 (500-1½)			
LNAV/VNAV DA	1368-2 550 (600-2)			
LNAV MDA	2100-1¼ 1282 (1300-1¼)	2100-1½ 1282 (1300-1½)	2100-3 1282 (1300-3)	1282 (1300-3)
CIRCLING	2100-2	1282 (1300-2)	2100-3	1282 (1300-3)

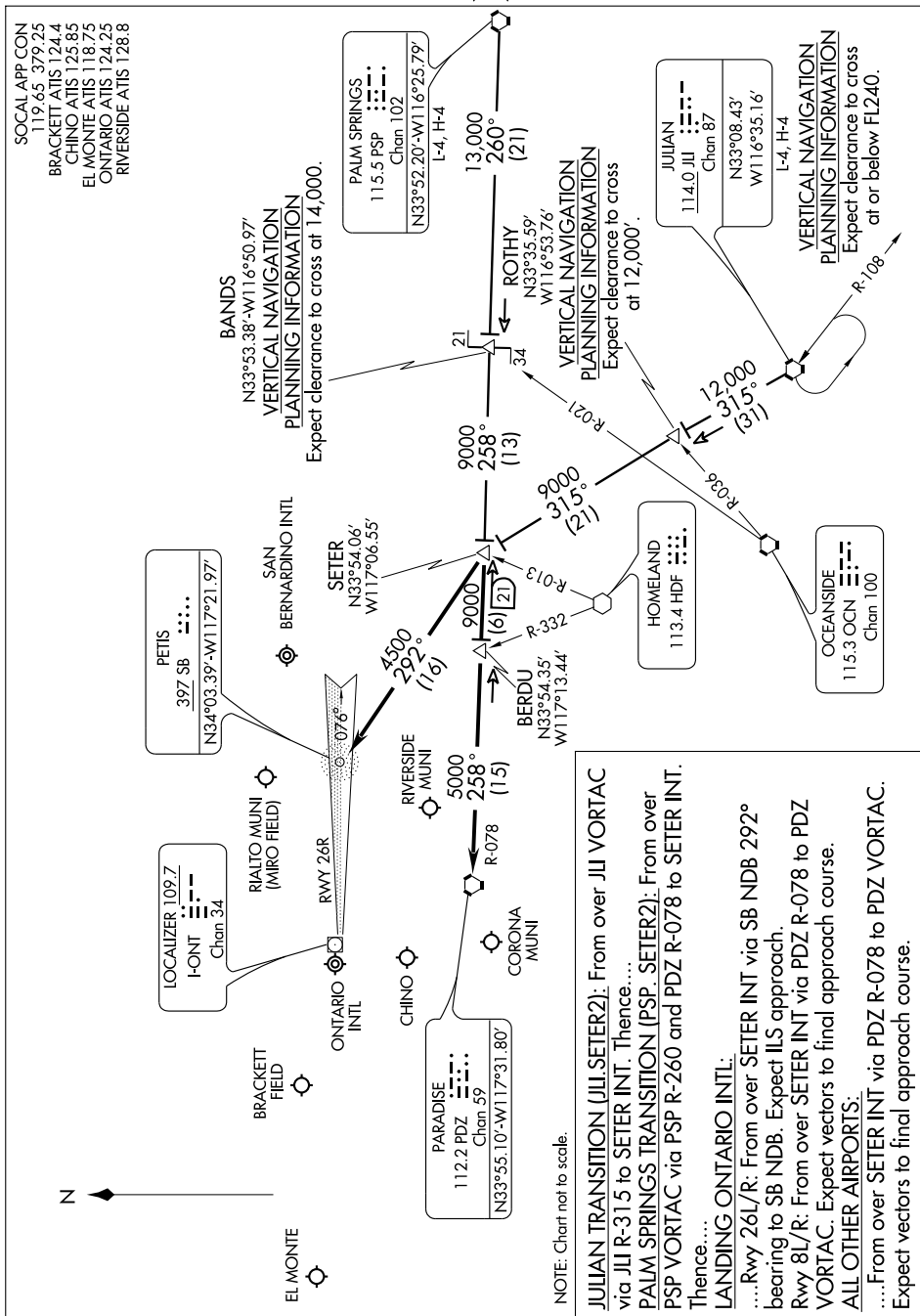


REIL Rwy 27
MRL Rlys 9-27 and 16-34

SETER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA

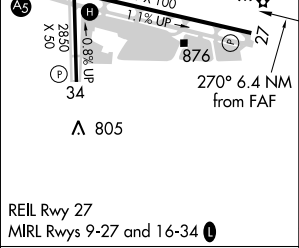
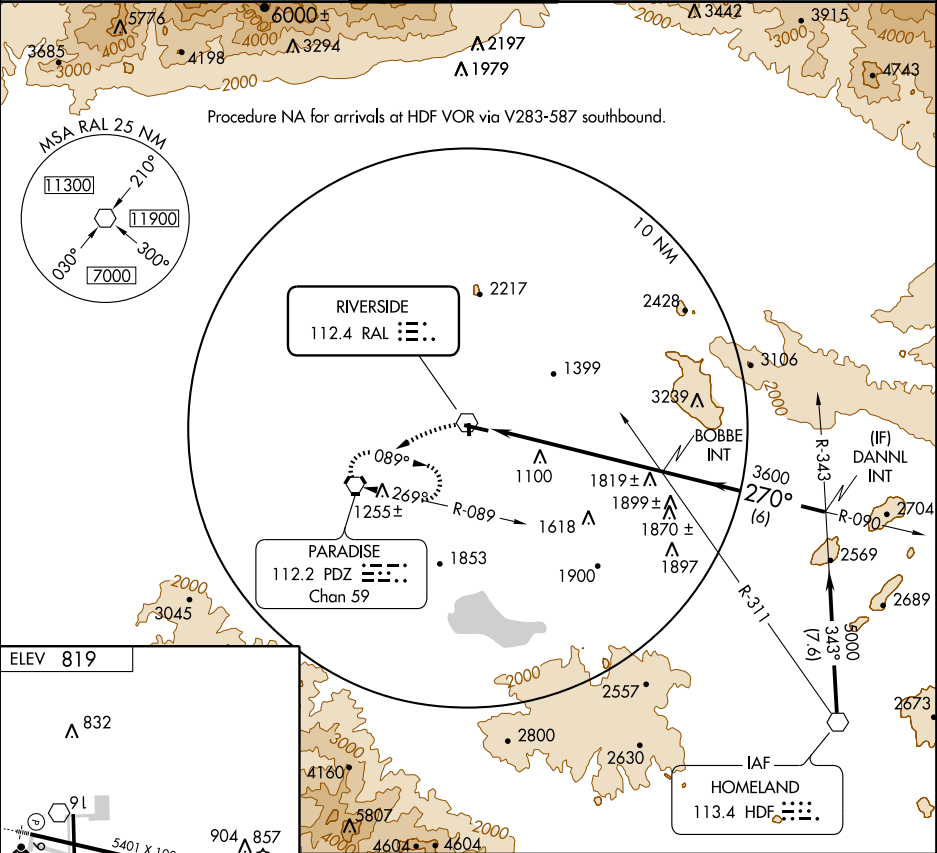


VOR RAL 112.4	APP CRS 270°	Rwy Idg TDZE Apt Elev	N/A N/A 819
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VOR-A
RIVERSIDE MUNI (RAL)

When VGSI inoperative, circling Rwy 34 NA at night. When local altimeter setting not received, use China altimeter setting and increase all MDAs 60 feet.	MISSED APPROACH: Climbing left turn to 4500 direct PDZ VORTAC and hold, continue climb-in-hold to 4500.
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ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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FAF to MAP 6.4 NM				
Knots	60	90	120	150
Min:Sec	6:24	4:16	3:12	2:34
CATEGORY	A	B	C	D
CIRCLING	2300-1¼ 1481 (1500-1¼)	2300-1½ 1481 (1500-1½)	2300-3 1481 (1500-3)	NA

FAF to MAP 4.6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2000-1¼	2000-1½	2000-3	1181 (1200-3)
Min:Sec	4:36	3:04	2:18	1:50	1:32		1181 (1200-1¼)	1181 (1200-1½)		

VOR RWY 9
RIVERSIDE MUNI (RAL)

VOR RAL	APP CRS	Rwy Idg	5401
112.4	079°	TDZE	795
		Apt Elev	819

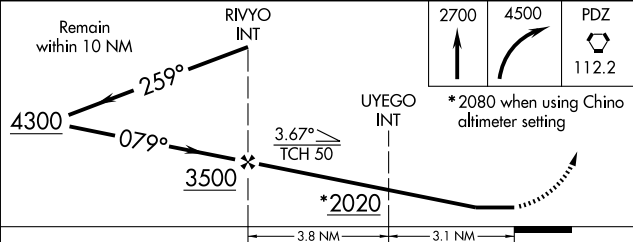
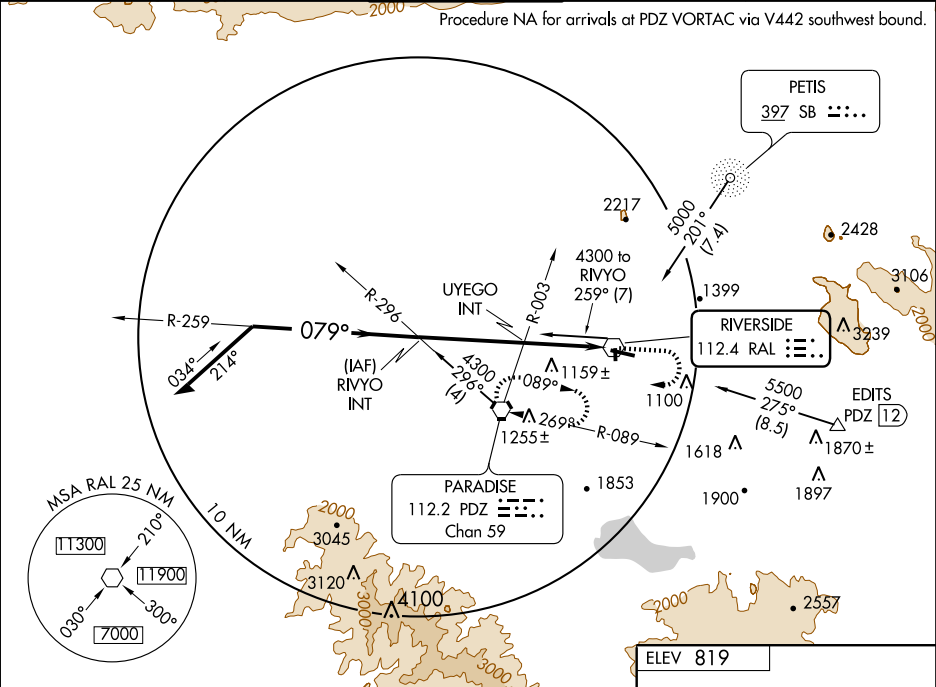
⚠ When VGSi inoperative, circling Rwy 34 NA at night.

⚠ When local altimeter setting not received, use Chino altimeter setting and increase all MDAs 60 feet.

MALSR

MISSED APPROACH: Climb to 2700 then climbing right turn to 4500 direct PDZ VORTAC and hold, continue climb-in-hold to 4500.

ATIS 128.8	SOCAL APP CON 135.4 377.125	RIVERSIDE TOWER ★ 121.0 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-9	2020-3/4 1225 (1300-3/4)	2020-1 1225 (1300-1)	2020-2 1/2 1225 (1300-2 1/2)	NA
CIRCLING	2020-1 1/4 1201 (1300-1 1/4)	2020-1 1/2 1201 (1300-1 1/2)	2020-3 1201 (1300-3)	NA
UYEGO FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-9	1740-3/4 945 (1000-3/4)	1740-2 1/4 945 (1000-2 1/4)	NA	
CIRCLING	1740-1 1/4 921 (1000-1 1/4)	1740-2 3/4 921 (1000-2 3/4)	NA	

ELEV 819

REIL Rwy 27
MIRL Rws 9-27 and 16-34

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

ZIGGY FOUR ARRIVAL

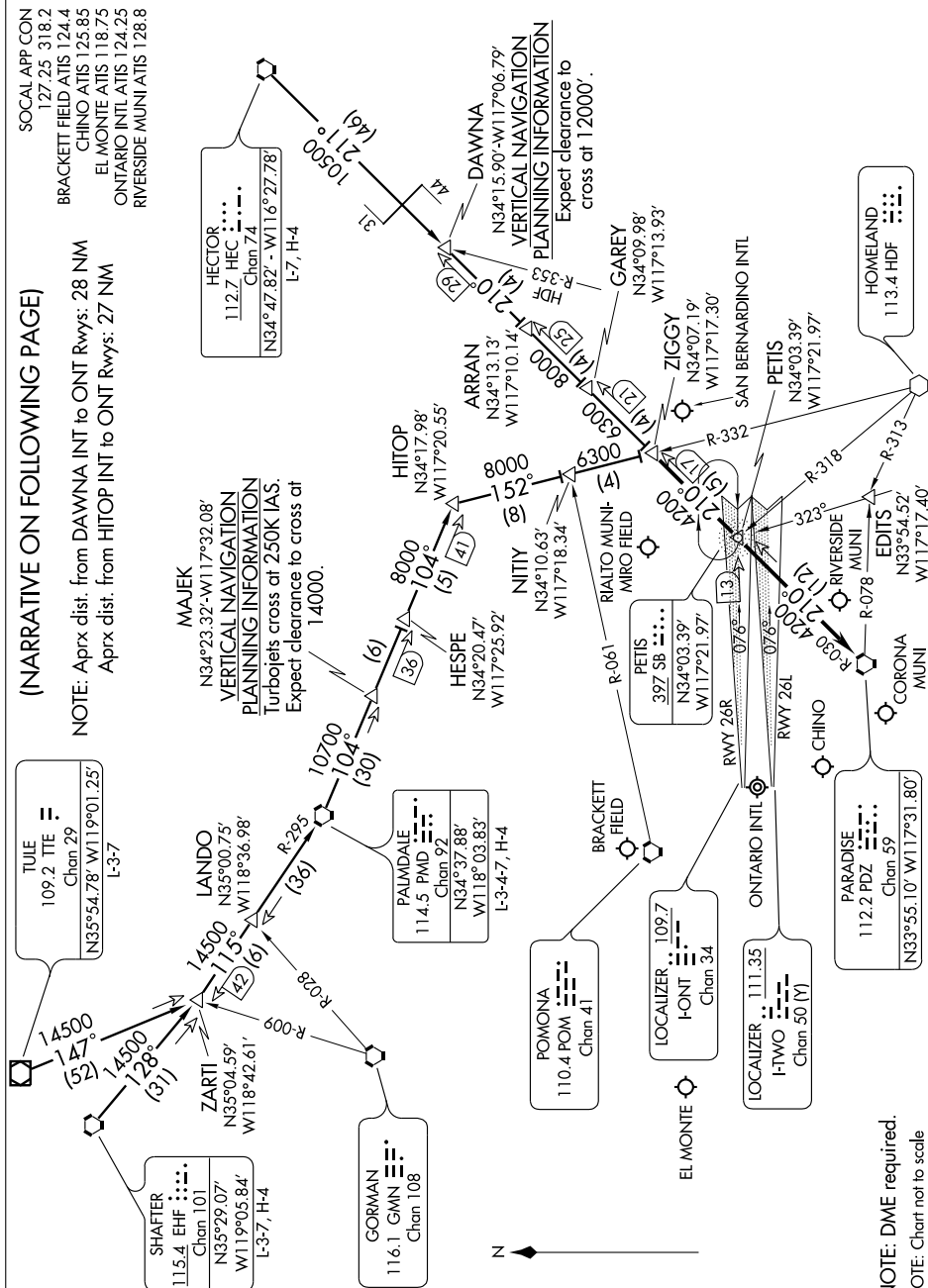
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwys: 28 NM
Aprx dist. from HITOP INT to ONT Rwys: 27 NM



NOTE: Chart not to scale

SW-3 14 JAN 2010 to 11 FEB 2010

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

ATIS
134.75 239.05
MARCH TOWER
127.65 253.5
GND CON
121.75 335.8
CLNC DEL
121.75 335.8

ELEV
1542
1703

ANG RAMP

AFRC RAMP

33°54'N

CAUTION
ALERT
APRONS/HANGARS

FIELD
ELEV
1536

BAK-12

ELEV
1540

FUEL
TANKS

PAX
TERMINAL

TRANSIENT
AIRCRAFT RAMP

BASE OPS
AND
CONTROL TOWER

TRIM PAD

BLAST FENCE

AFRC RAMP

BLAST FENCE

ELEV
1512

ELEV
1502

FIRE
STATION

CAUTION:
RWY 12-30 AVBL
FOR MARCH ARB
ASSIGNED AERO
CLUB AND U.S.
CUSTOMS ACFT
ONLY.

MARCH
JOINT POWERS
AUTHORITY
(CIVILIAN RAMP)

ELEV
1486

BAK-12

ELEV
1488

117°15'W

33°52'N

RWY 14-32
PCN 45 R/B/W/T
RWY 12-30
PCN 23 F/A/W/T

117°16'W



SW-3, 14 JAN 2010 to 11 FEB 2010

LOC I-RIV 110.1	APCH CRS 315°	Rwy Idg 13,300 TDZE 1497 Arpt Elev 1536	JAL-348 [USAF]	MARCH ARB (KRIV)
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▼ * When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile. ** When ALS inop, increase CAT CD RVR to 60 and vis to 1¼ mile, CAT E vis to 1½.	ALSF-1 	MISSED APPROACH: Climb direct RIV TACAN. Then turn left to intercept RIV R-138 direct BOGLE, continue climb in hold to 5000.
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ATIS 134.75 239.05	SOCAL APP CON 134.0 278.3	MARCH TOWER 127.65 253.5	GND CON 121.75 335.8	CLNC DEL 121.75 335.8
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*** Circling not authorized NE of Rwy 14-32.
 Rapid rising terrain.

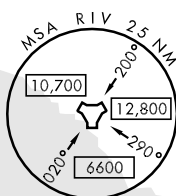
CAUTION:

Ultralights, balloons,
 parachutists in vicinity
 of Perris Valley Arpt.

CAUTION:

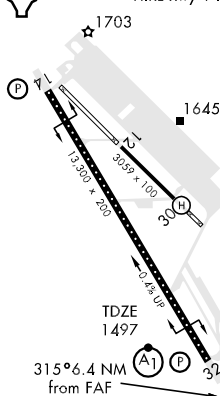
Ultralights and gliders in
 vicinity of Hemet-Ryan Arpt.

PARADISE
 112.2 PDZ
 Chan 59



EMERG SAFE ALT 100 NM 13,800
 FROM "RIV" TACAN

ELEV 1536 TDZL/CL Rwy 32
 HIRL Rwy 14-32

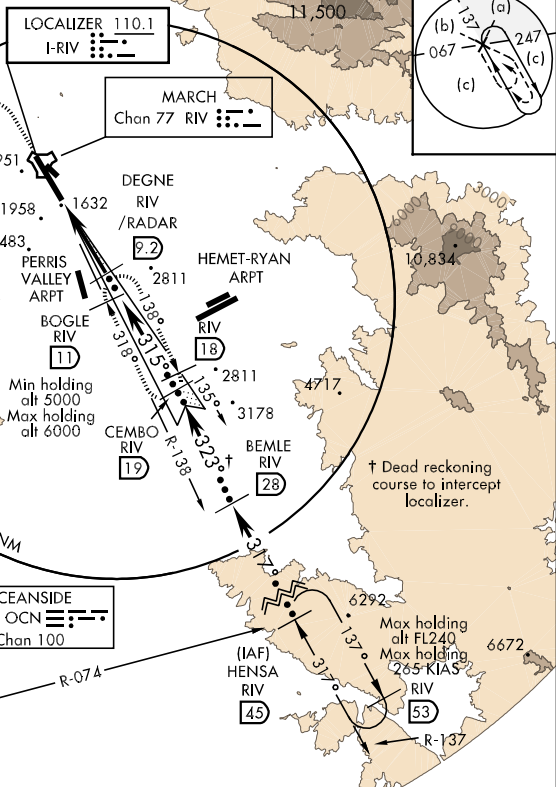


FAF to MAP 5.9 NM

Knots	120	140	160	180	200
Min:Sec	2:57	2:32	2:13	1:58	1:46

RIVERSIDE, CALIFORNIA

Amdt 5 09351



5000 RIV	BOGLE RIV 11	DEGRE RIV / RADAR 9.2	Intcp Lczt CEMBO RIV 19	BEMLE RIV 28	HENSA RIV / 45
RIV TACAN	KIMDE RIV 3.3	RIV 3.9	315°	317°	FL240
3600	3600	3600	6000	12,000	GS 3.00° TCH 59
CATEGORY	C	D	E		
S-ILS 32 *	1697/24	200	(200-½)		
S-LOC 32 **	1920/40	423 (400-¾)	1920/50	423 (400-1)	
CIRCLING ***	2260-2 724 (800-2)	2260-2¼ 724 (800-2¼)	2800-3 1264 (1300-3)		

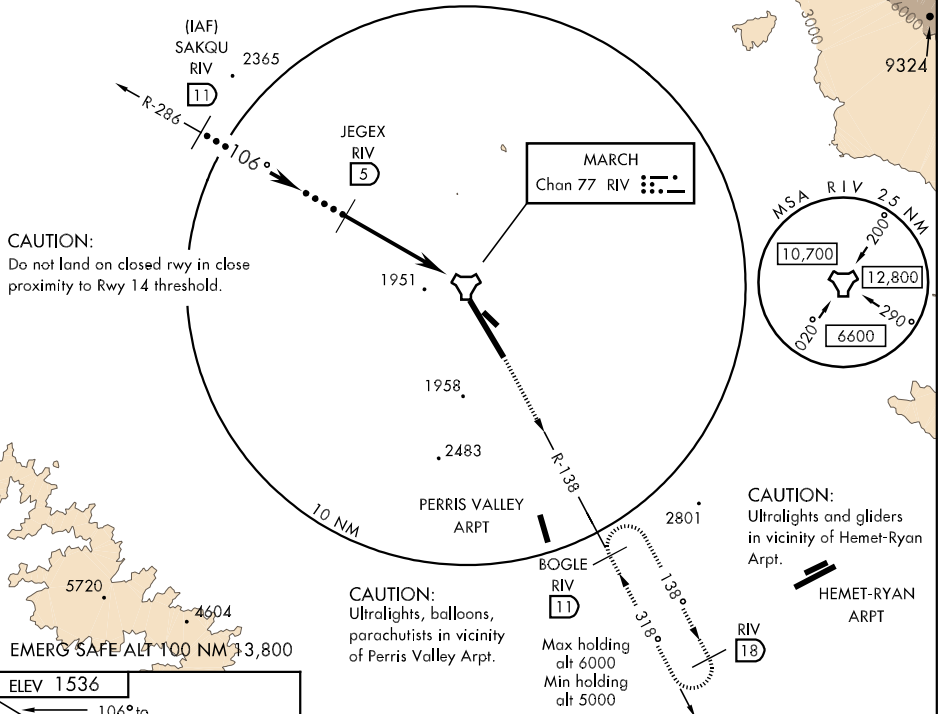
33°53'N-117°16'W

MARCH ARB (KRIV)

TACAN RIV
Chan **77**APCH CRS
106°Rwy ldg **13,300**
TDZE **1536**
Arpt Elev **1536**

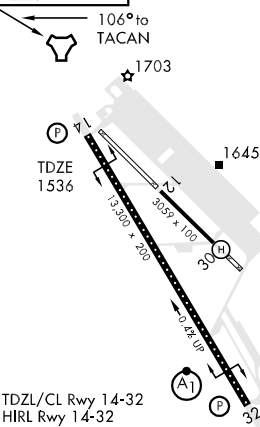
AL-348 [USAF]

MARCH ARB (KRIV)

* Circling not authorized NE of Rwy 14-32.
Rapid rising terrain.MISSED APPROACH: Climb out RIV TACAN R-138
direct BOGLE continue climb in hold to 5000.ATIS
134.75 239.05SOCAL APP CON
134.0 278.3MARCH TOWER
127.65 253.5GND CON
121.75 335.8CLNC DEL
121.75 335.8

EMERG SAFE ALT 100 NM 13,800

ELEV 1536

TDZL/CL Rwy 14-32
HRL Rwy 14-32

SAKQU R-286 (11) 4500		JEGEX (5) 3100	MEKIE (1.8) 1	TACAN
R-286 106°		R-106	R-138	R-138
2.59° TCH 56		4.0 NM	1.0	0.5
CATEGORY	C	D	E	
S-14	2200-2 664 (700-2)	2200-2 ¼ 664 (700-2 ¼)	2200-2 ¼ 664 (700-2 ¼)	
CIRCLING *	2260-2 724 (800-2)	2260-2 ¼ 724 (800-2 ¼)	2800-3 1264 (1300-3)	

TACAN RIV Chan 77	APCH CRS 318°	Rwy ldg 13,300 TDZE 1497 Arpt Elev 1536
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JAL-348 [USAF]

MARCH ARB (KRIV)



* When ALS inop, increase CAT C vis to 1½ miles, CAT D vis to 1¾ miles, and CAT E vis to 2 miles.

ALSF-1



MISSED APPROACH: Climb on RIV TACAN R-138 to 5000. At .6 DME South of RIV, turn left to intercept RIV R-138 direct BOGLE continue climb in hold to 5000.

ATIS	SOCAL APP CON	MARCH TOWER	GND CON	CLNC DEL
134.75 239.05	134.0 278.3	127.65 253.5	121.75 335.8	121.75 335.8

** Circling not authorized NE of Rwy 14-32.
Rapid rising terrain.

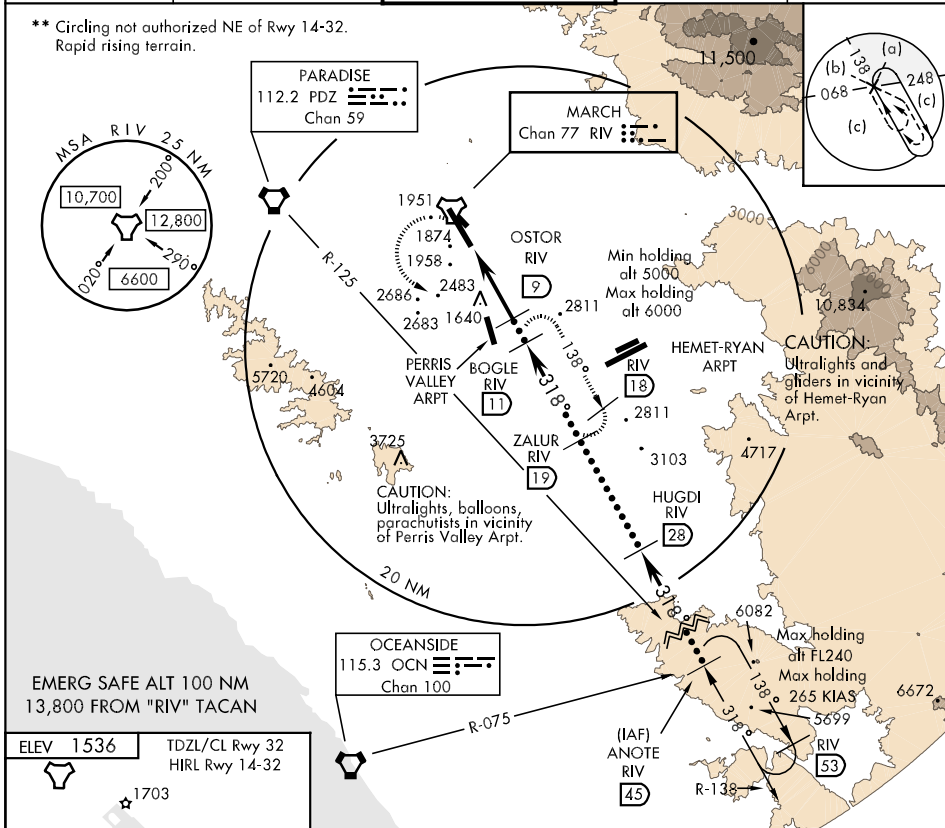


Diagram illustrating the flight path of a S-32 aircraft. The path starts at TACAN, proceeds to CULAX (3.3), then to OSTAR (9), ZALUR (19), and finally to HUGDI (28) and ANOTE (45). The path is marked with a solid line and a dotted line. The distance from TACAN to CULAX is 0.5 NM, and from CULAX to OSTAR is 5.7 NM. The altitude at OSTAR is 3600, at ZALUR is 6000, and at HUGDI is 12,000. The angle of the path is 3.11 degrees (TCH 73).

VOR HDF
113.4APCH CRS
315°Rwy ldg 13,300
TDZE 1497
Arpt Elev 1536

JAL-348 [USAF]

MARCH ARB (KRIV)

▼ * When ALS inop, increase CAT C vis to 1½ miles,
CAT D vis to 1¾ miles and CAT E vis to 2 miles.
** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

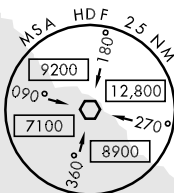


MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing the PDZ VORTAC R-080 turn left direct HDF, continue climb in hold to 5000.

ATIS
134.75 239.05SOCAL APP CON
134.0 278.3MARCH TOWER
127.65 253.5GND CON
121.75 335.8CLNC DEL
121.75 335.8

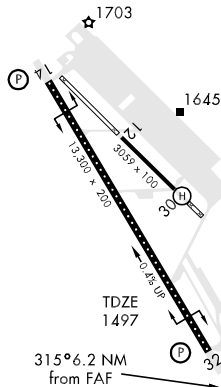
PARADISE
112.2 PDZ
Chan 59

CAUTION:
Ultralights, balloons,
parachutists in vicinity
of Perris Valley Arpt.



EMERG SAFE ALT 100 NM
13,800 FROM "HDF" VOR

ELEV 1536

TDZL/CL Rwy 32
HIRL Rwy 14-32

FAF to MAP 5.2 NM

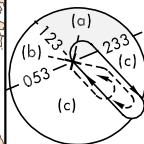
Knots	120	140	160	180	200
Min:Sec	2:36	2:14	1:57	1:44	1:34

RIVERSIDE, CALIFORNIA

Amdt 8, 09351

33°53'N-117°16'W

MARCH ARB (KRIV)



HOMELAND
113.4 HDF

Max holding
alt 6000
Min holding
alt 5000

PERRIS VALLEY
ARPTHEMET-RYAN
ARPT

CAUTION:
Ultralights and gliders in vicinity
of Hemet-Ryan Arpt.

COMGA/
RADAR FixWAYLE/
RADARWAREK/
RADAR

OCEANSIDE
115.3 OCN
Chan 100

JULIAN
114.0 JLI
Chan 87

5000

HDF

PDZ

R-315

R-080

WAYLE INT

WAREK INT

JULI

VORTAC

COMGA INT

WAYLE INT

WAREK INT

JULI

VORTAC

COMGA INT

WAYLE INT

WAREK INT

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WAREK INT

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VORTAC

COMGA INT

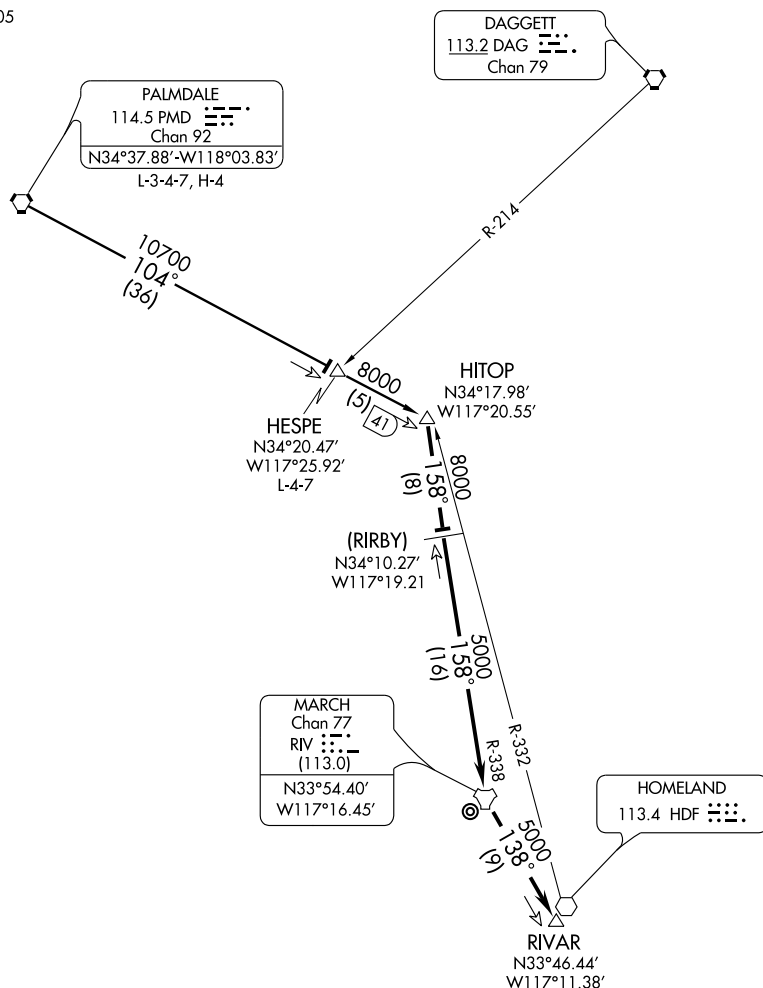
WAYLE INT

WAREK INT

JULI

VORTAC

ATTIS ★ 239.05



NOTE: TACAN equipped aircraft only.

NOTE: Chart not to scale.

HESPE TRANSITION (HESPE.HITOP1): From over HESPE INT via PMD R-104 to HITOP INT. Thence . . .

PALMDALE TRANSITION (PMD.HITOP1): From over PMD VORTAC via PMD R-104 to HITOP INT. Thence . . .

. . . From over HITOP INT via RIV R-338 to RIV TACAN. Thence via RIV R-138 to RIVAR DME. Expect radar vectors to final approach course.

LOC I-RIV **110.1** APCH CRS **315°** Rwy Idg **13,300**
TDZE **1497**
Arpt Elev **1536**

AL-348 [USAF]

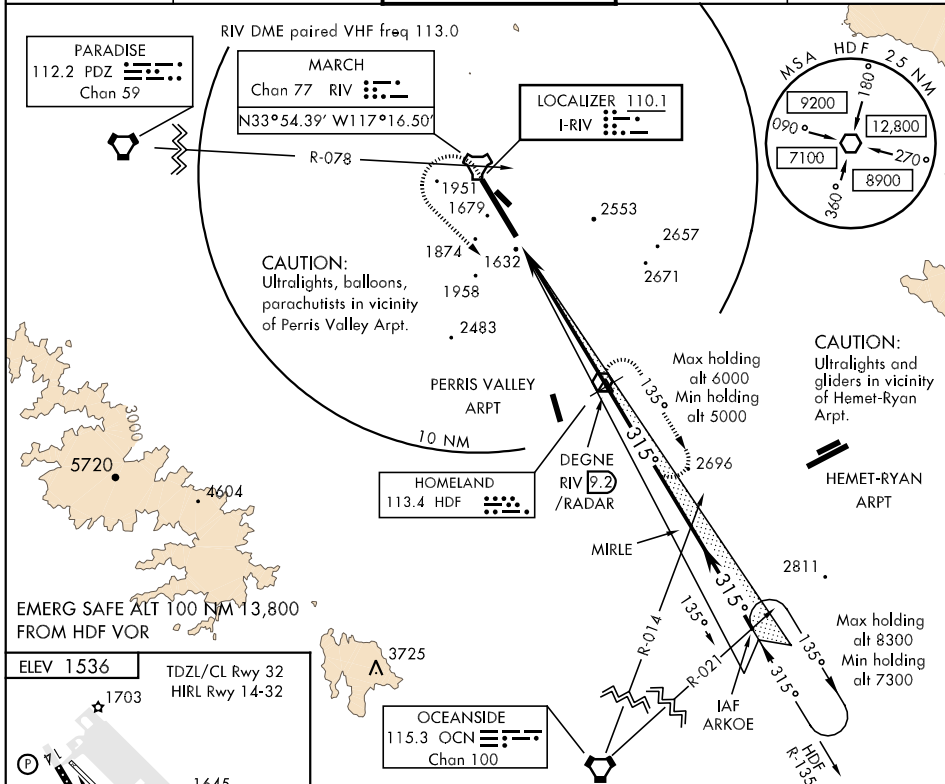
MARCH ARB (KRIV)

▼ * When ALS inop, increase CAT A-E RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT A-B RVR to 50 and vis to 1,
CAT C-D RVR to 60 and vis is to 1¼, CAT E vis to 1½.
*** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

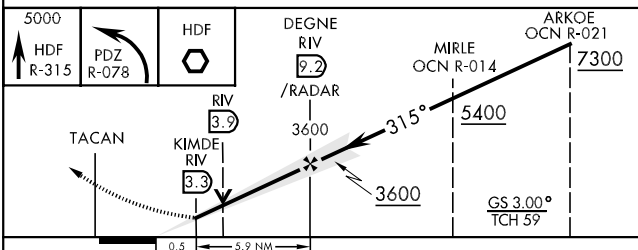
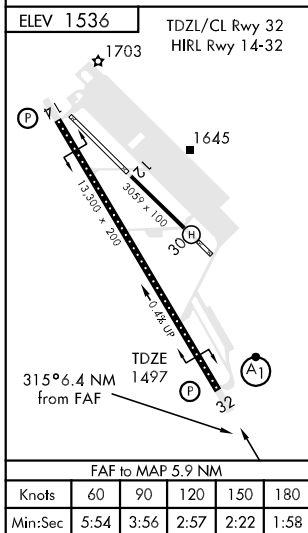


MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing PDZ VORTAC R-078 turn left direct HDF continue climb in hold to 5000.

ATIS **134.75 239.05** SOCAL APP CON **134.0 278.3** MARCH TOWER **127.65 253.5** GND CON **121.75 335.8** CLNC DEL **121.75 335.8**



SW-3, 14 JAN 2010 to 11 FEB 2010



CATEGORY	A	B	C	D	E
S-ILS 32 *	1697/18 200 (200-½)		1697/24 200		(200-½)
S-LOC 32 **	1920/24 423 (400-½)		1920/40 423 (400-¾)		1920/50 423 (400-1)
CIRCLING ***	2180-1 644 (700-1)	2220-1 684 (700-1)	2260-2 724 (800-2)	2260-2½ 724 (800-2½)	2800-3 1264 (1300-3)

LOC I-RIV
110.1

APCH CRS
315°

Rwy Idg	13,300
TDZE	1497
Arpt Elev	1536

AL-348 [USAF]

MARCH ARB (KRIV)



ALSF-1



MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing PDZ VORTAC R-078 turn left direct HDF continue climb in hold to 5000.

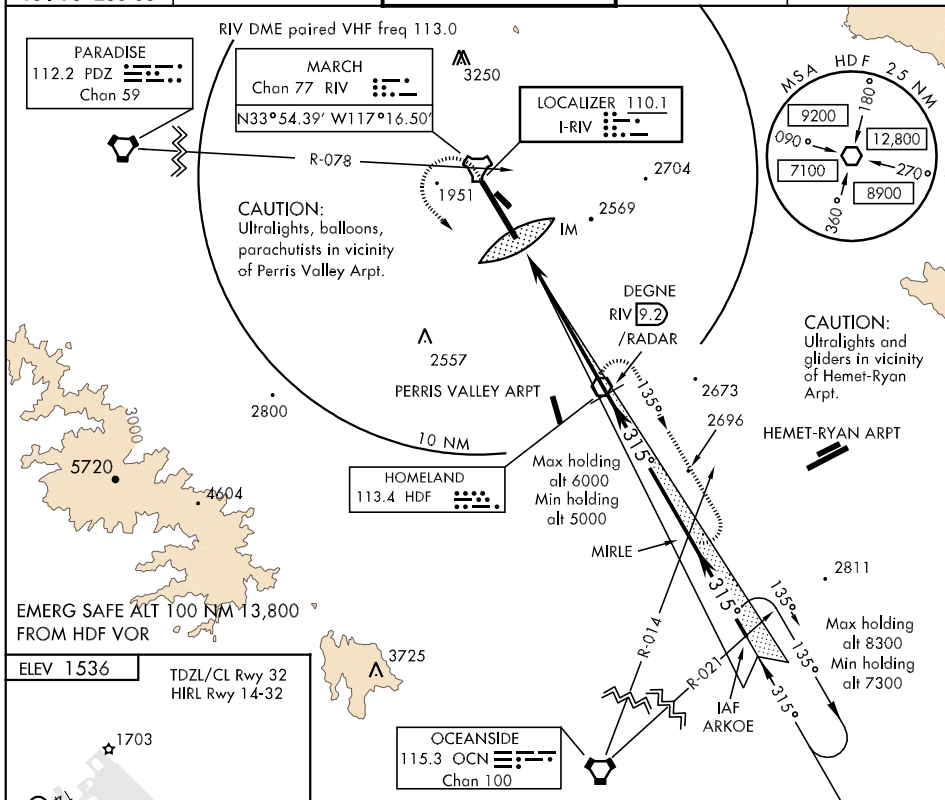
ATIS
134.75 239.05

SOCAL APP CON
134.0 278.3

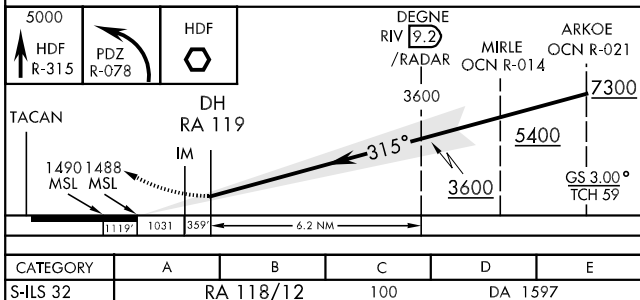
MARCH TOWER
127.65 253.5

GND CQN
121.75 335.8

CLNC DEL
121.75 335.8



CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



RIVERSIDE, CALIFORNIA

33°53'N-117°16'W

MARCH ARB (KRIV)

Amdt 2 09351

LOC I-RIV 110.1	APCH CRS 315°	Rwy ldg 13,300 TDZE 1497 Arpt Elev 1536
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AL-348 [USAF]

MARCH ARB (KRIV)

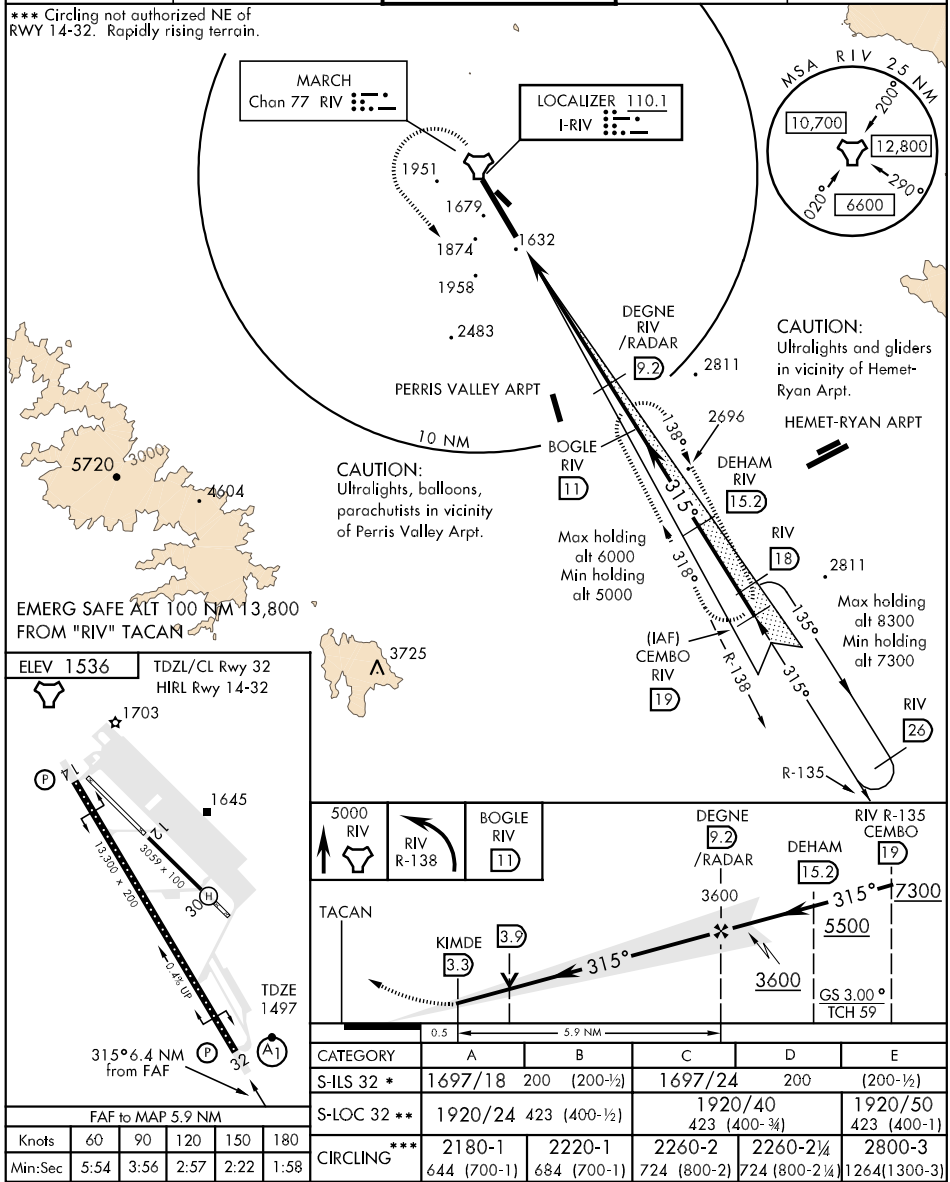
▼ * When ALS inop, increase CAT A-E RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
 CAT CD RVR to 60 and vis to $1\frac{1}{4}$ mile, CAT E vis to $1\frac{1}{2}$ mile.



MISSED APPROACH: Climb direct RIV
 TACAN, then turn left to intercept RIV R-138
 direct BOGLE, continue climb in hold to 5000.

ATIS 134.75 239.05	SOCAL APP CON 134.0 278.3	MARCH TOWER 127.65 253.5	GND CON 121.75 335.8	CLNC DEL 121.75 335.8
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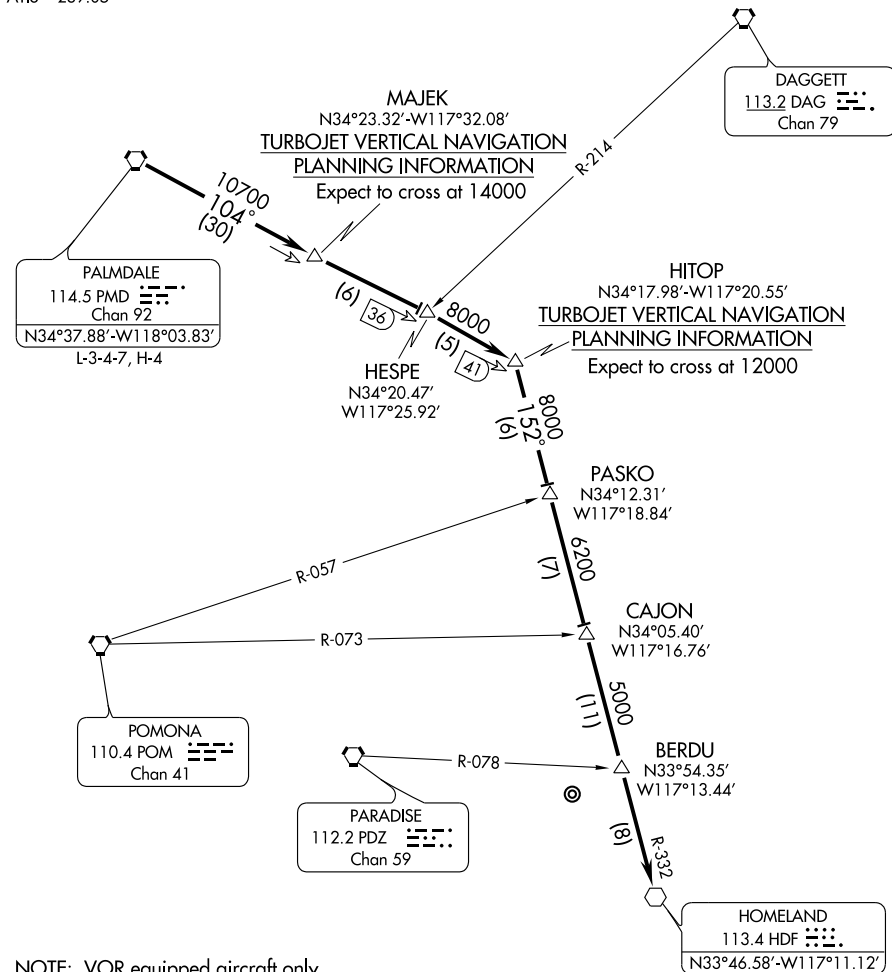
*** Circling not authorized NE of
 RWY 14-32. Rapidly rising terrain.



MARCH APP CON★

133.5 324.1

ATIS★ 239.05



NOTE: VOR equipped aircraft only.

NOTE: Chart not to scale.

From over PMD VORTAC via PMD R-104 to HITOP INT. Thence via HDF R-332 to HDF VOR. Expect VOR approach or vector to intercept ILS Rwy 32.

SKYES-ONE DEPARTURE (SKYES 1 • SKYES)

SHL-348 [USAF]

RIVERSIDE, CALIFORNIA

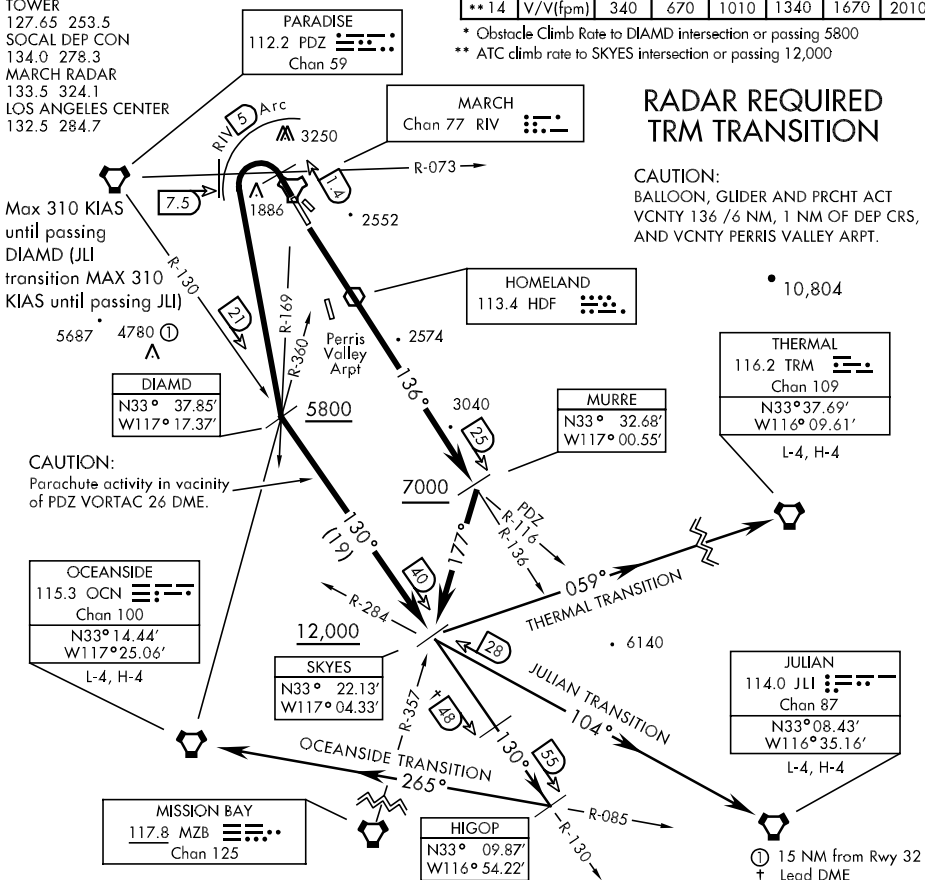
ATIS 134.75 239.05
GND CON/CLNC DEL
121.75 335.8
TOWER
127.65 253.5
SOCAL DEP CON
134.0 278.3
MARCH RADAR
133.5 324.1
LOS ANGELES CENTER
132.5 284.7

Rwy	Knots	60	120	180	240	300	360
* 32	V/V(fpm)	250	500	750	1000	1250	1500
** 32	V/V(fpm)	310	620	920	1230	1530	1840
** 14	V/V(fpm)	340	670	1010	1340	1670	2010

* Obstacle Climb Rate to DIAMD intersection or passing 5800
** ATC climb rate to SKYES intersection or passing 12,000

RADAR REQUIRED TRM TRANSITION

CAUTION:
BALLOON, GLIDER AND PRCHT ACT
VCNTY 136 /6 NM, 1 NM OF DEP CRS,
AND VCNTY PERRIS VALLEY ARPT.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Climb via RIV TACAN R-136 or climb direct HDF VOR, then via HDF R-136 to MURRE, intercept MZB VORTAC R-357 to SKYES, Cross MURRE at or above 7000, and SKYES at or above 12,000. Thence via transition or assigned route.

TAKE-OFF RWY 32: Climb on track 315°, then turn left crossing PDZ VORTAC R-073/RIV TACAN 1.4 DME direct DIAMD, proceed no closer than 7.5 DME PDZ. Remain within 5 DME RIV. Cross DIAMD at or above 5800. Intercept PDZ R-130 to SKYES, cross SKYES at or above 12,000. Thence via transition or assigned route.

JULIAN TRANSITION (SKYES 1 • JLI): JLI VORTAC R-284 direct JLI. MAX 310 KIAS until passing JULIAN VORTAC

OCEANSIDE TRANSITION (SKYES 1 • OCN): Via SKYES direct HIGOP intercept OCN VORTAC R-085 to OCN.

THERMAL TRANSITION (SKYES 1 • TRM): TRM VORTAC bearing 059° to TRM (Radar required)

SKYES-ONE DEPARTURE (SKYES 1 • SKYES)

RIVERSIDE, CALIFORNIA

TACAN RIV
Chan **77**APCH CRS
106°Rwy ldg **13,300**
TDZE **1536**
Arpt Elev **1536**

AL-348 [USAF]

MARCH ARB (KRIV)

▼ * Circling not authorized NE of Rwy 14-32.
Rapid rising terrain.

MISSED APPROACH: Climb out RIV TACAN R-138
direct BOGGLE, continue climb in hold to 5000.

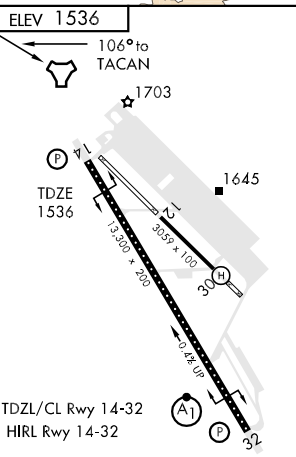
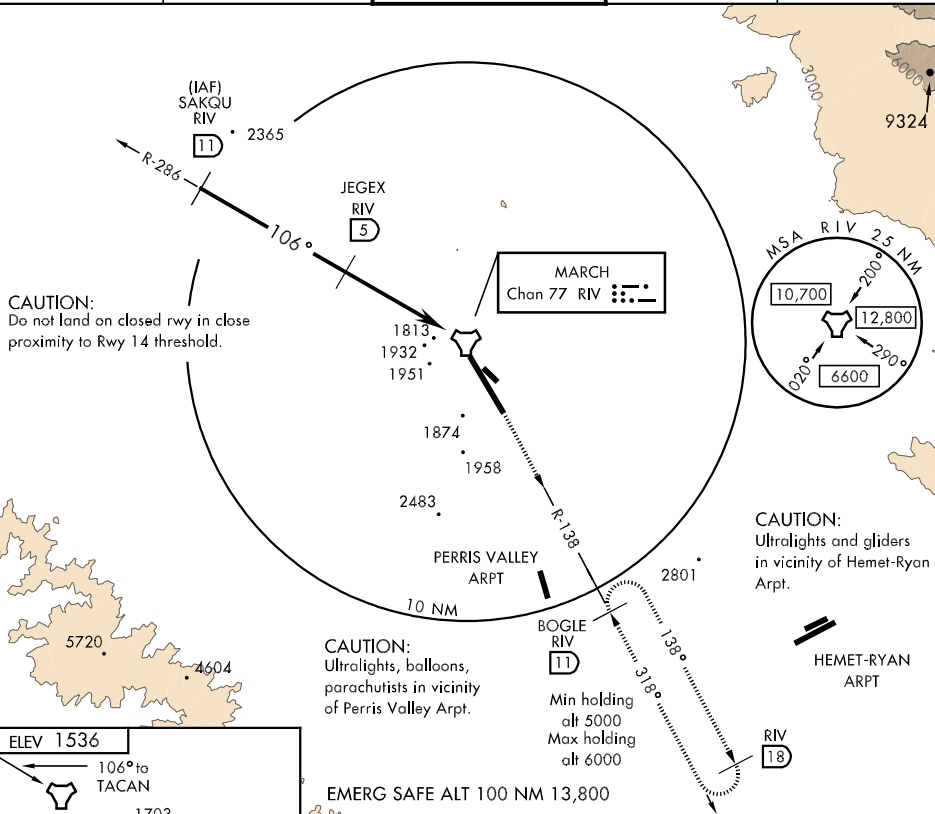
ATIS
134.75 239.05

SOCAL APP CON
134.0 278.3

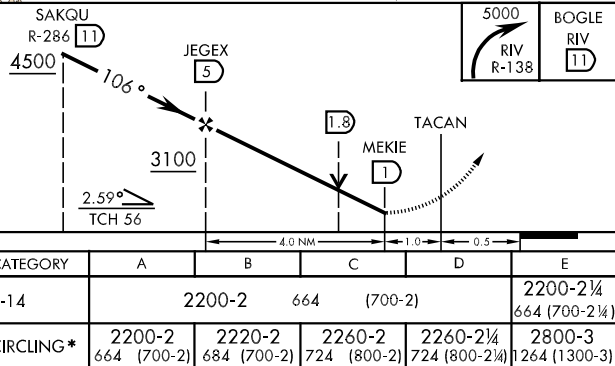
MARCH TOWER
127.65 253.5

GND CON
121.75 335.8

CLNC DEL
121.75 335.8



EMERG SAFE ALT 100 NM 13,800



TACAN RIV
Chan **77**

APCH CR
318°

Rwy Idg	13,300
TDZE	1497
Arpt Elev	1536

AL-348 [USAF]

MARCH ARB (KRIV)

- * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
CAT C vis to 1½ miles, CAT D vis to 1¾ and CAT E vis to 2.
** Circling not authorized NE of Rwy 14-32.
Rapid rising terrain.

ALSF-1



MISSED APPROACH: Climb on RIV TACAN R-138 to 5000. At 0.6 DME South of RIV, turn left to intercept RIV R-138 direct BOGLE. Continue climb in hold to 5000.

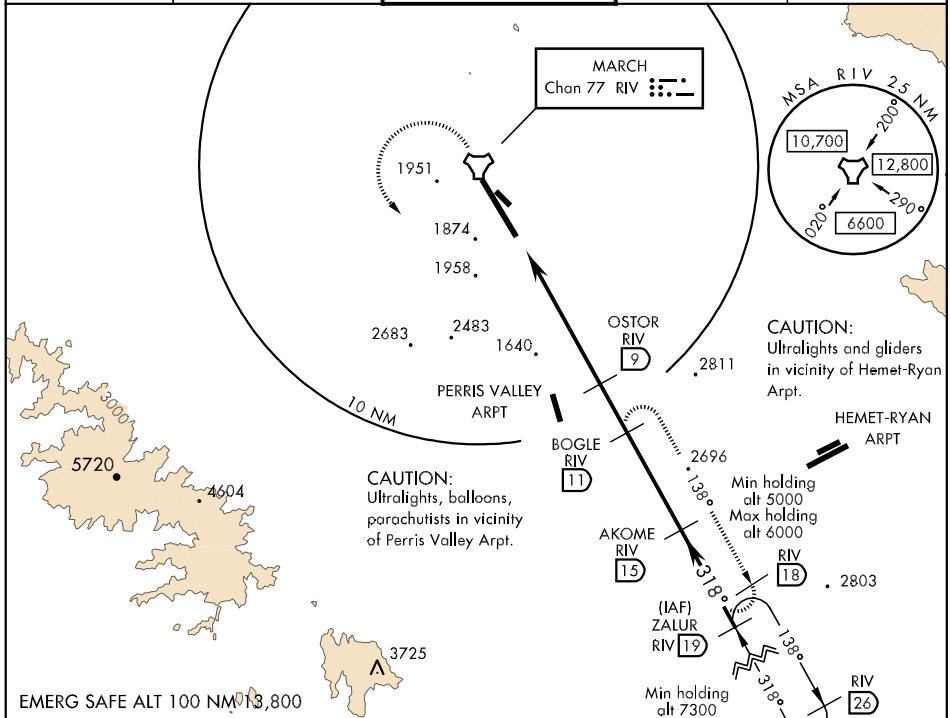
ATIS
134.75 239.05

SOCAL APP CON
134.0 278.3

MARCH TOWER	
127.65	253.5

GND CON	
121.75	335.8

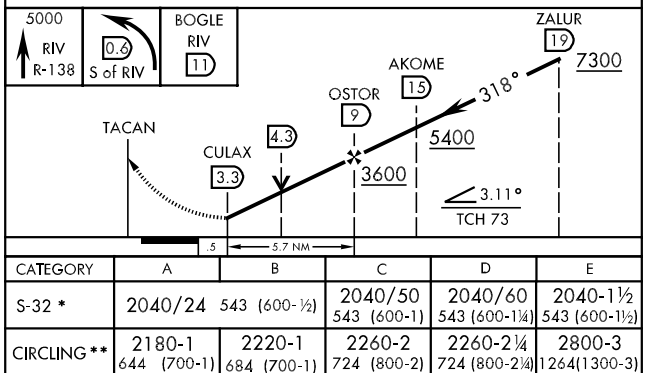
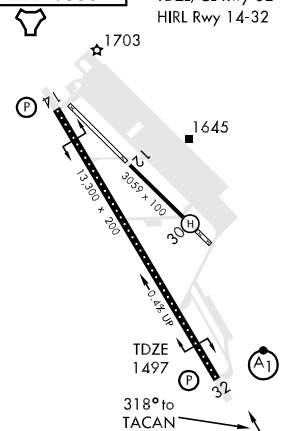
CLNC DEL
121.75 335.8



EMERG SAFE ALT 100 NM 13,800

ELEV 1536

TDZL/CL Rwy 32
HIRL Rwy 14-32



VOR HDF
113.4APCH CRS
315°Rwy Idg **13,300**
TDZE **1497**
Arpt Elev **1536**

AL-348 [USAF]

MARCH ARB (KRIV)

▼ When ALS inop, increase CAT AB RVR to 60 and vis to 1¼ miles,
CAT C vis to 1½ miles, CAT D vis to 1¾ miles, CAT E vis to 2 miles.
** Circling not authorized NE of Rwy 14-32. Rapid rising terrain.

ALSF-1



MISSED APPROACH: Climb on HDF VOR R-315 to 5000. Crossing PDZ VORTAC R-080 turn left direct HDF continue climb in hold to 5000.

ATIS
134.75 239.05SOCAL APP CON
134.0 278.3MARCH TOWER
127.65 253.5GND CON
121.75 335.8CLNC DEL
121.75 335.8

PARADISE
112.2 PDZ
Chan 59

CAUTION:
Ultralights, balloons,
parachutists in vicinity
of Perris Valley Arpt.

PERRIS VALLEY
ARPT

IAF
HOMELAND
113.4 HDF

Max holding
alt 6000
Min holding
alt 5000

HEMET-RYAN
ARPT

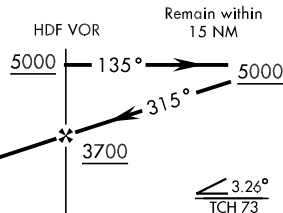
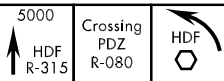
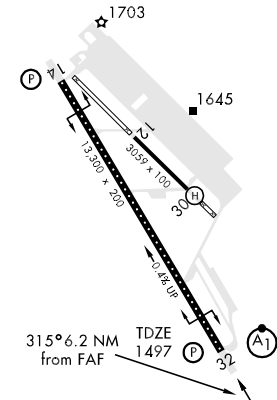
CAUTION:
Ultralights and gliders
in vicinity of Hemet-Ryan
Arpt.

EMERG SAFE ALT 100 NM 13,800

ELEV 1536

TDZL/CL Rwy 14-32
HIRL Rwy 14-32

VGSI and descent angles
not coincident

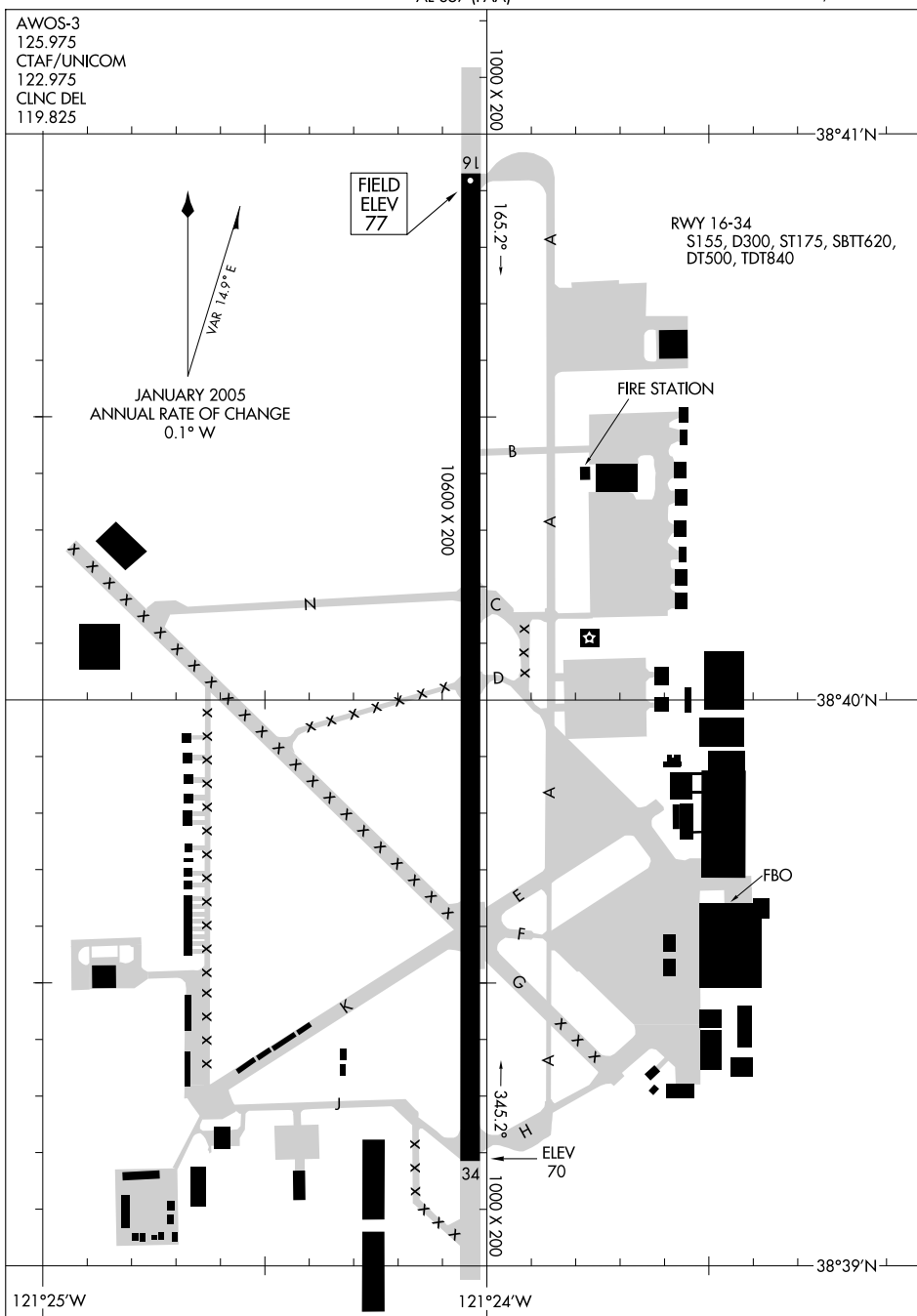


CATEGORY	A	B	C	D	E
S-32 *	2040/40 543 (600-¾)		2040/50 543 (600-1)	2040/60 543 (600-1¼)	2040-1½ 543 (600-1½)
CIRCLING **	2180-1¼ 644 (700-1¼)	2220-1¼ 684 (700-1¼)	2260-2 724 (800-2)	2260-2¼ 724 (800-2¼)	2800-3 1264 (1300-3)

AIRPORT DIAGRAM

AL-357 (FAA)

 SACRAMENTO/ MC CLELLAN AIRFIELD (MCC)
 SACRAMENTO, CALIFORNIA

 AWOS-3
 125.975
 CTAF/UNICOM
 122.975
 CLNC DEL
 119.825


SW-2 14 JAN 2010 to 11 FEB 2010

LOC I-MCC <u>109.7</u>	APP CRS 163°	Rwy Idg 10600 TDZE 75 Apt Elev 75
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ILS RWY 16

SACRAMENTO/ MC CLELLAN AIRFIELD (MCC)

A NA If local altimeter setting not received, use Sacramento Intl altimeter setting and increase all DH/MDAs 40 feet. DME from MCC VOR/DME.

SSALR

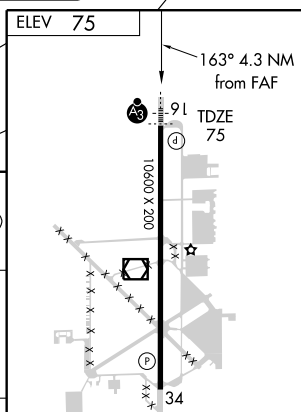
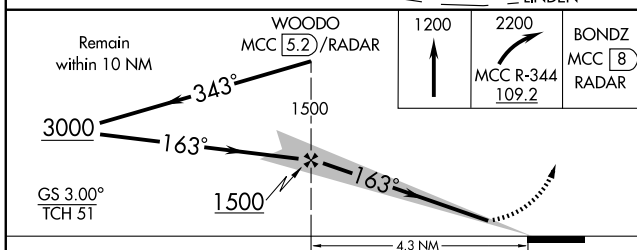
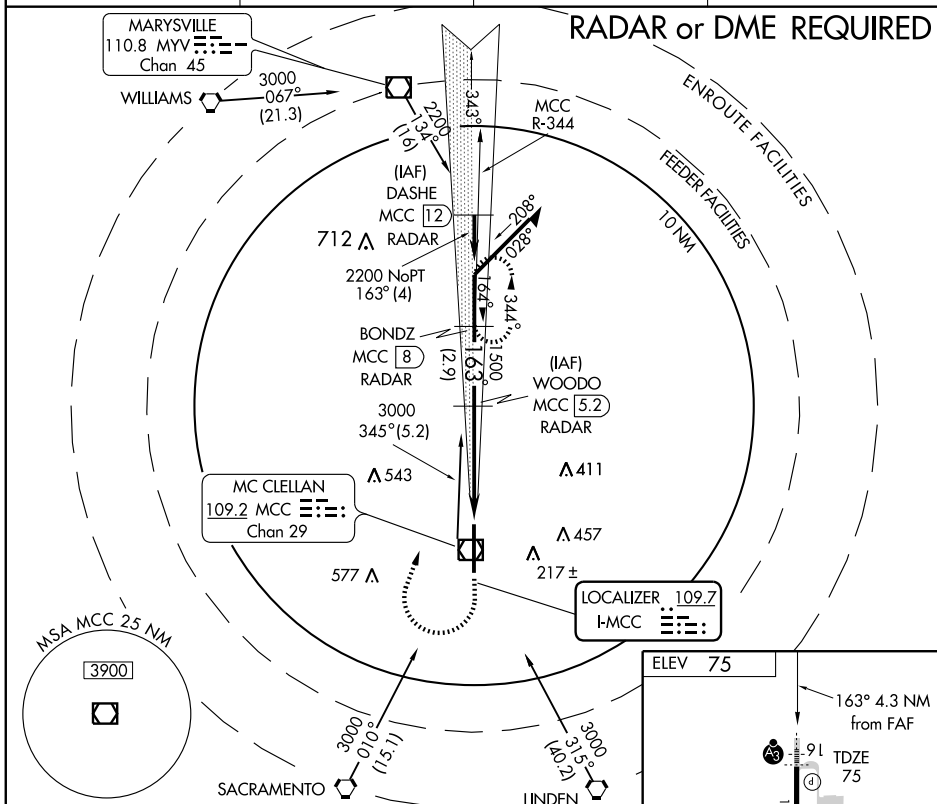
MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 via MCC VOR/DME R-344 to BONDZ/8 DME/RADAR and hold

AWOS-3
125.975

NORCAL APP CON
127.4 317.5

CLNC DEL
119.825

UNICOM
122.975 (CTAF) **L**



CATEGORY	A	B	C	D
S-ILS 16	275/24 200 (200-½)			
S-LOC 16	460/24 385 (400-½)			460/40 385 (400-¾)
CIRCLING	NA			

HIRL Rwy 16-34 L					
FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

SACRO TWO DEPARTURE



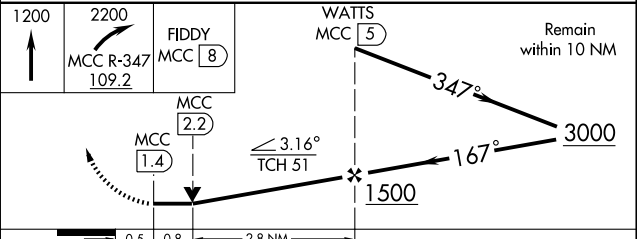
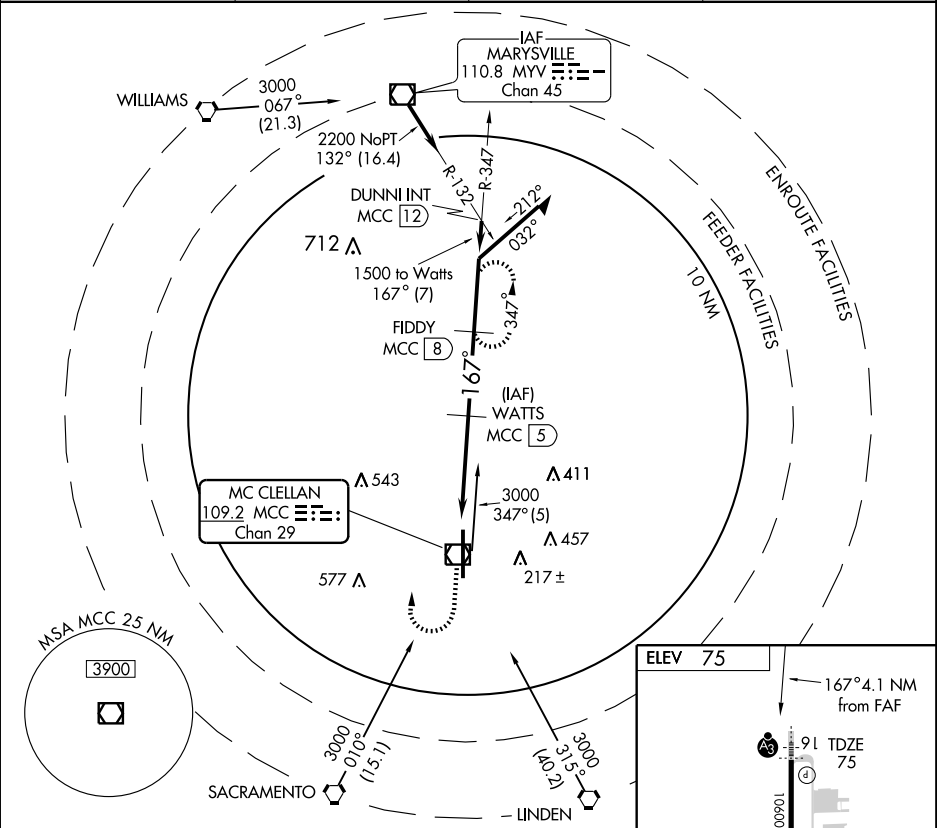
VOR/DME MCC	APP CRS	Rwy Idg	10600
109.2	167°	TDZE	75
Chan 29		Apt Elev	75

VOR/DME RWY 16

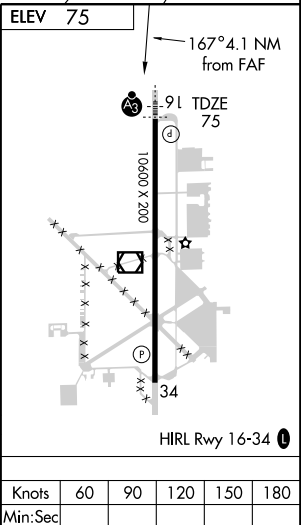
SACRAMENTO/MC CLELLAN AIRFIELD (MCC)

NA	If local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDAs 40 feet. VDP not authorized with Sacramento Intl altimeter setting.	SSALR AG	MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 via MCC R-347 to FIDDY/8 DME and hold.
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AWOS-3 125.975	NORCAL APP CON 127.4 317.5	CLNC DEL 119.825	UNICOM 122.975 (CTAF) 0
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CATEGORY	A	B	C	D
S-16	540/24 465 (500-½)		540/40 465 (500-¾)	540/50 465 (500-1)
CIRCLING	NA			



VOR/DME MCC	APP CRS	Rwy Idg	10600
109.2	333°	TDZE	70
Chan 29		Apt Elev	75

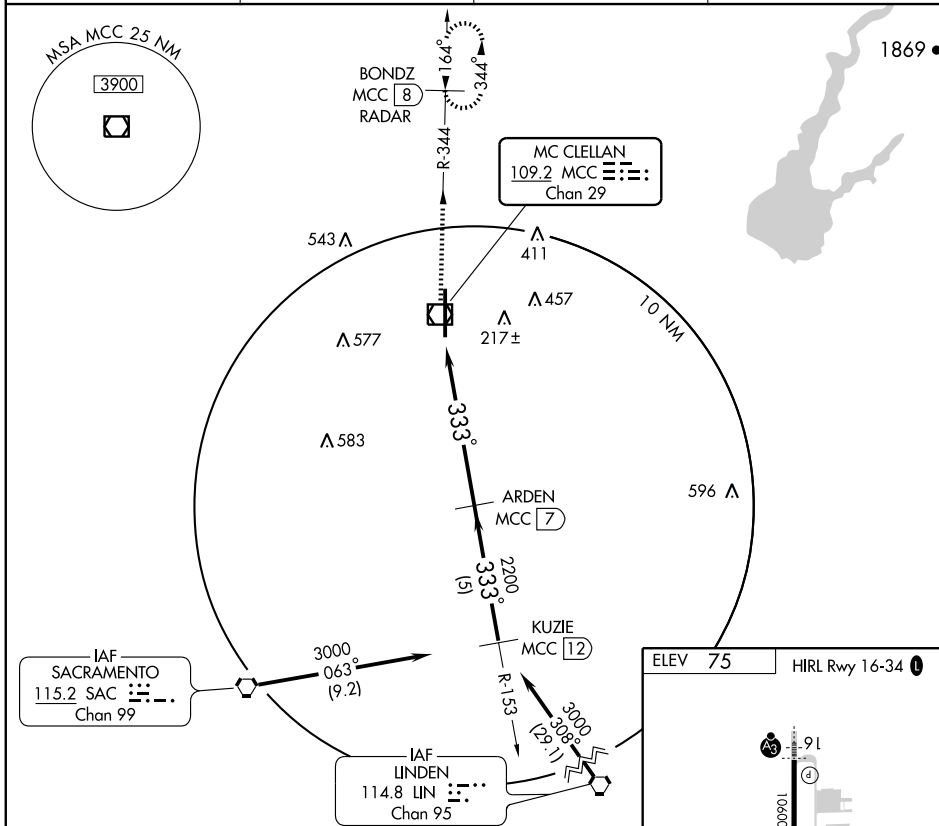
VOR/DME RWY 34

SACRAMENTO/MC CLELLAN AIRFIELD (MCC)

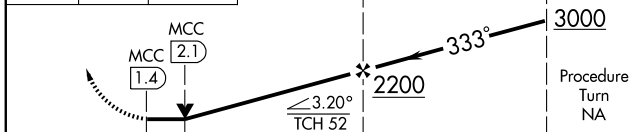
NA If local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDAs 40 feet.
VDP not authorized with Sacramento Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 2200 via MCC R-344 to BONDZ/8 DME/RADAR and hold.

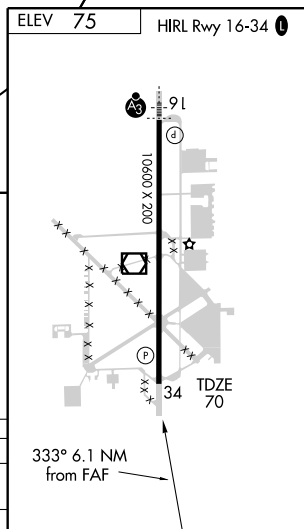
AWOS-3 125.975	NORCAL APP CON 127.4 317.5	CLNC DEL 119.825	UNICOM 122.975 (CTAF) 0
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2200	MCC R-344	BONDZ MCC 8 RADAR
	109.2	



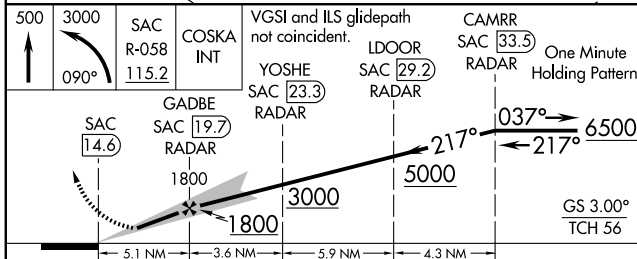
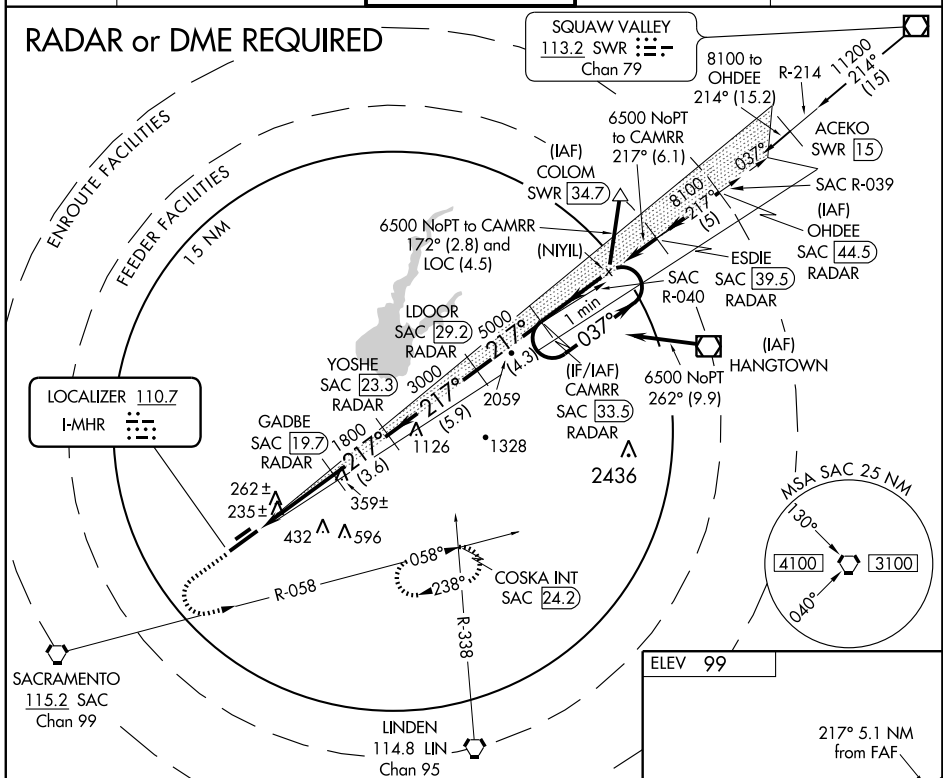
CATEGORY	A	B	C	D
S-34	500-1	430 (500-1)	500-1¼ 430 (500-1¼)	500-1½ 430 (500-1½)
CIRCLING	NA			



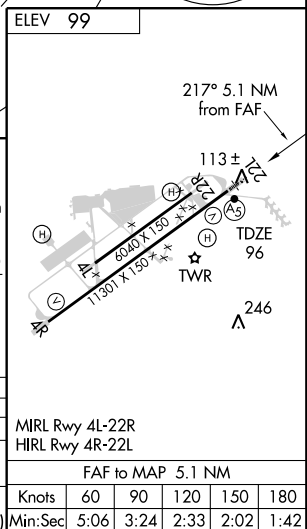


ATIS 118.325	NORCAL APP CON 127.4 317.5	MATHER TOWER 120.65 282.25	GND CON 121.85 307.9	CLNC DEL 121.85 307.9
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RADAR or DME REQUIRED



CATEGORY	A	B	C	D	E
S-ILS 22L	296-1/2 200 (200-1/2)				
S-LOC 22L	500-1/2	404 (500-1/2)	500-3/4	404 (500-3/4)	500-1 404 (500-1)
CIRCLING	560-1	461 (500-1)	560-1 1/2 461 (500-1 1/2)	660-2 561 (600-2)	800-2 1/2 701 (800-2 1/2)



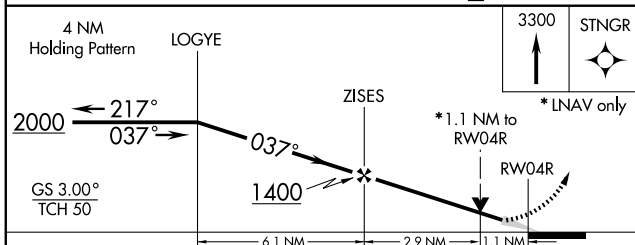
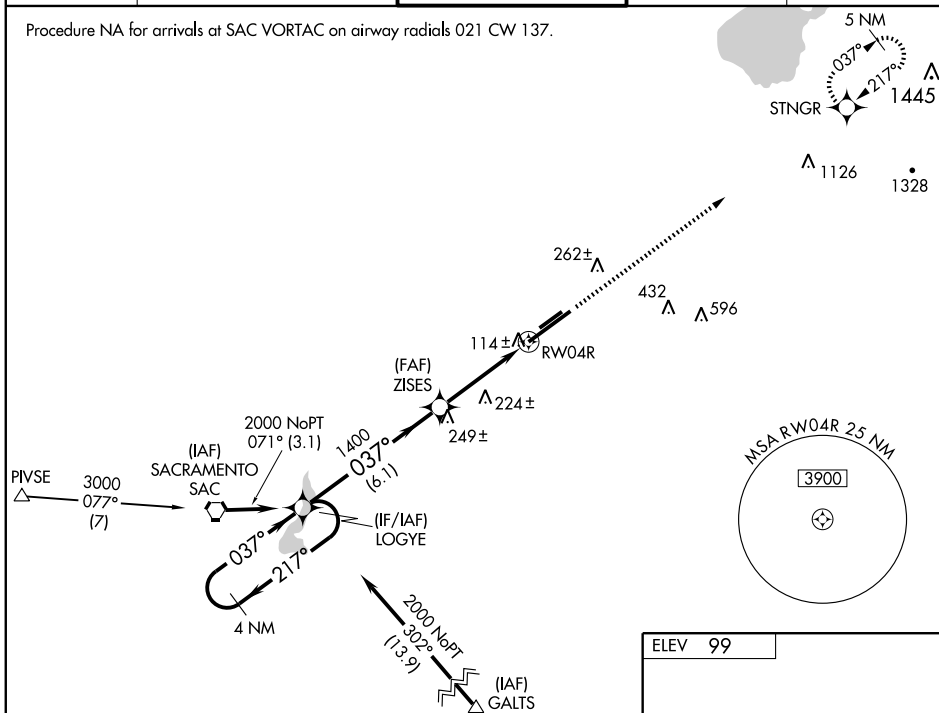
WAAS CH 45601 W04A	APP CRS 037°	Rwy Idg 11301 TDZE 79 Apt Elev 99
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RNAV (GPS) RWY 4R
SACRAMENTO MATHER (MHR)

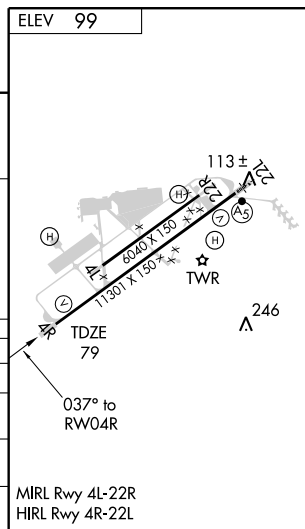
MISSED APPROACH: Climb to 3300 direct STNGR and hold.

ATIS	NORCAL APP CON	MATHER TOWER	GND CON	CLNC DEL
118.325	127.4 317.5	120.65 282.25	121.85 307.9	121.85 307.9

Procedure NA for arrivals at SAC VORTAC on airway radials 021 CW 137.



CATEGORY	A	B	C	D
LPV DA	329-3/4		250 (300-3/4)	
LNAV/ VNAV	373-1		294 (300-1)	
LNAV MDA	480-1	401 (400-1)	480-1 1/4	401 (400-1 1/4)
CIRCLING	560-1	461 (500-1)	560-1 1/2 461 (500-1 1/2)	660-2 561 (600-2)



APP CRS	Rwy Idg	11301
217°	TDZE	96
	Apt Elev	99

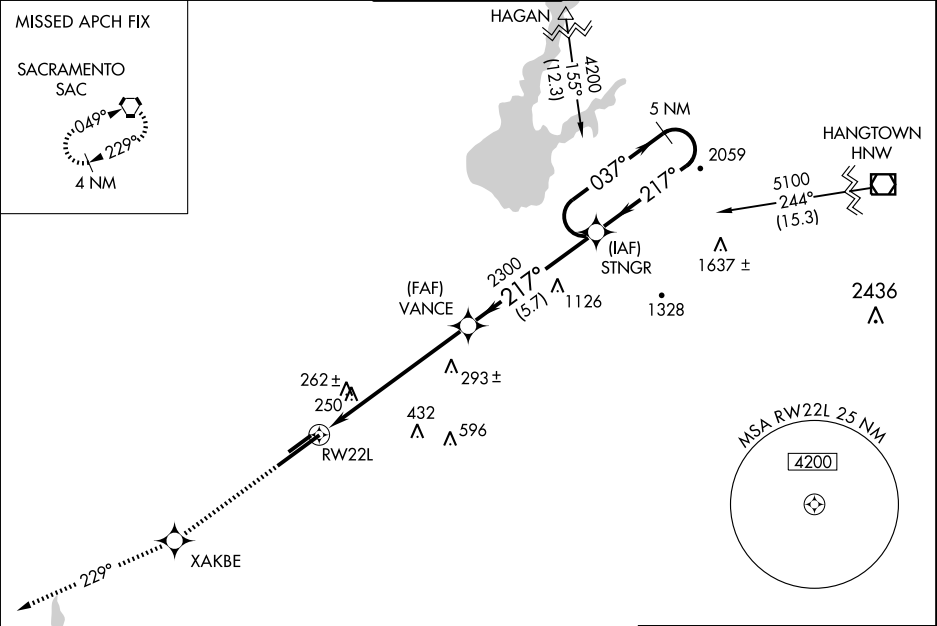
RNAV (GPS) RWY 22L
SACRAMENTO MATHER (MHR)

DME/DME RNP-0.3 NA.
Circling not authorized north of Rwy 4L-22R.
For inoperative MALSR increase LNAV/VNAV Cat. D visibility to 1 mile.

MALSR

MISSED APPROACH: Climb to 2000 via 217° course to XAKBE WP then via 229° course to SAC VORTAC and hold.

ATIS 118.325	NORCAL APP CON 127.4 317.5	MATHER TOWER 120.65 282.25	GND CON 121.85 307.9	CLNC DEL 121.85 307.9
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ELEV 99

2000

217°

XAKBE

229°

SAC

STNGR

5 NM Holding Pattern

3300

037°

217°

217°

2300

*1.4 NM to RW22L

*LNAV only

1.4

5.2 NM

5.7 NM

GS 3.00°

TCH 55

CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	380-½ 284 (300-½)		380-¾ 284 (300-¾)	
LNAV MDA	580-½ 484 (500-½)		580-¾ 484 (500-¾)	
CIRCLING	580-1 481 (500-1)		580-1 481 (500-1)	

217° to RW22L

113 ±

6040 X 150

11301 X 150

TDZE 96

TWR

246

MIRL Rwy 4L-22R

HIRL Rwy 4R-22L

VORTAC SAC 115.2 Chan 99	APP CRS 224°	Rwy Idg 11301 TDZE 96 Apt Elev 99
--	------------------------	--

VOR/DME RWY 22L
SACRAMENTO MATHER (MHR)

T Circling not authorized north of Rwy 4L-22R.

MALSR



MISSED APPROACH: Climbing left turn to 3000 via heading 090° and SAC R-058 to COSKA Int/SAC 24.2 DME and hold.

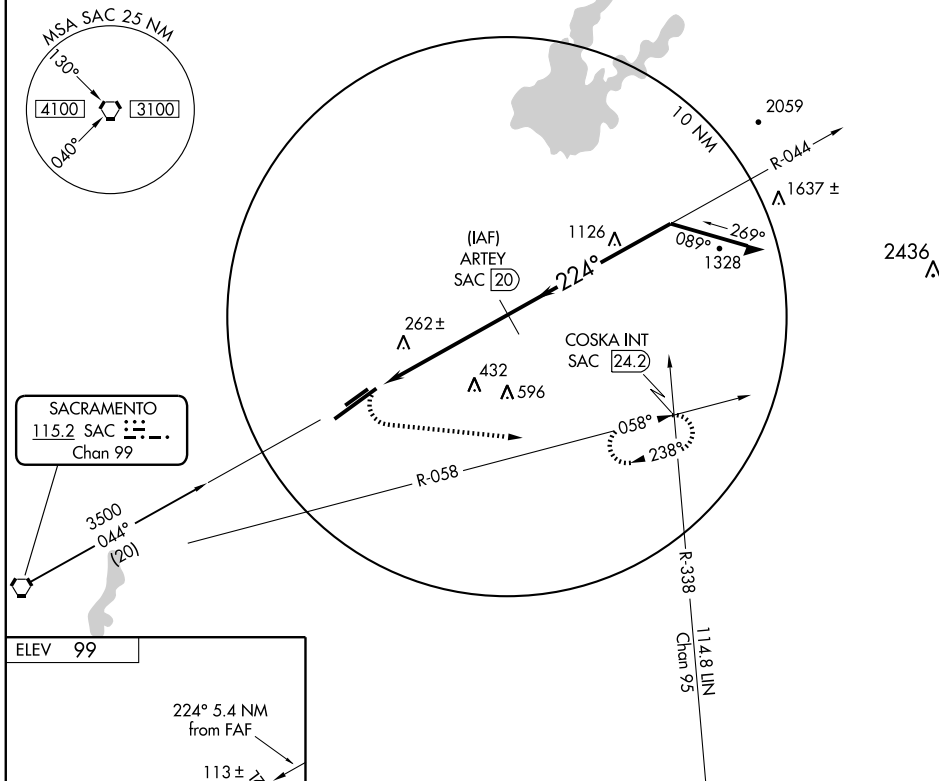
ATIS
118.325

NORCAL APP CON
127.4 317.5

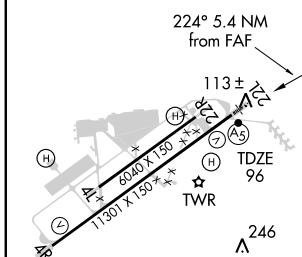
MATHER TOWER
120.65 282.25

GND CON
121.85 307.9

CLNC DEL
121,85 307,9



ELEV	99
------	----



MIRL Rwy 4L-22R
HIRL Rwy 4R-22L

Knots	60	90	120	150	180
Min:Sec					

Diagram illustrating a flight path with a non-coincident VGSI and descent angle. The path starts at 090°, passes through SAC R-058 (115.2) and COSKA SAC (24.2), then turns 3.22° to follow TCH 56. The path continues to 2000 ft, then turns 224° to 3500 ft, and finally turns 044° to remain within 10 NM. The VGSI and descent angles are not coincident.

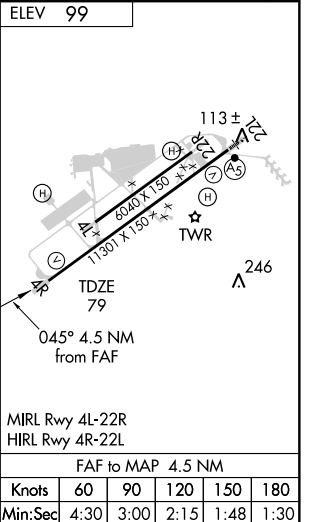
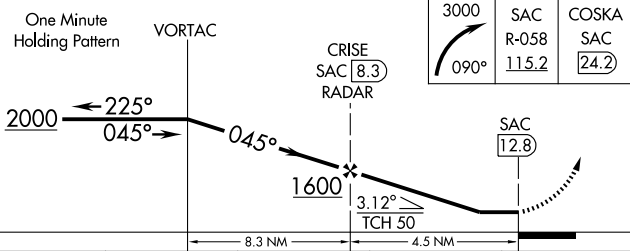
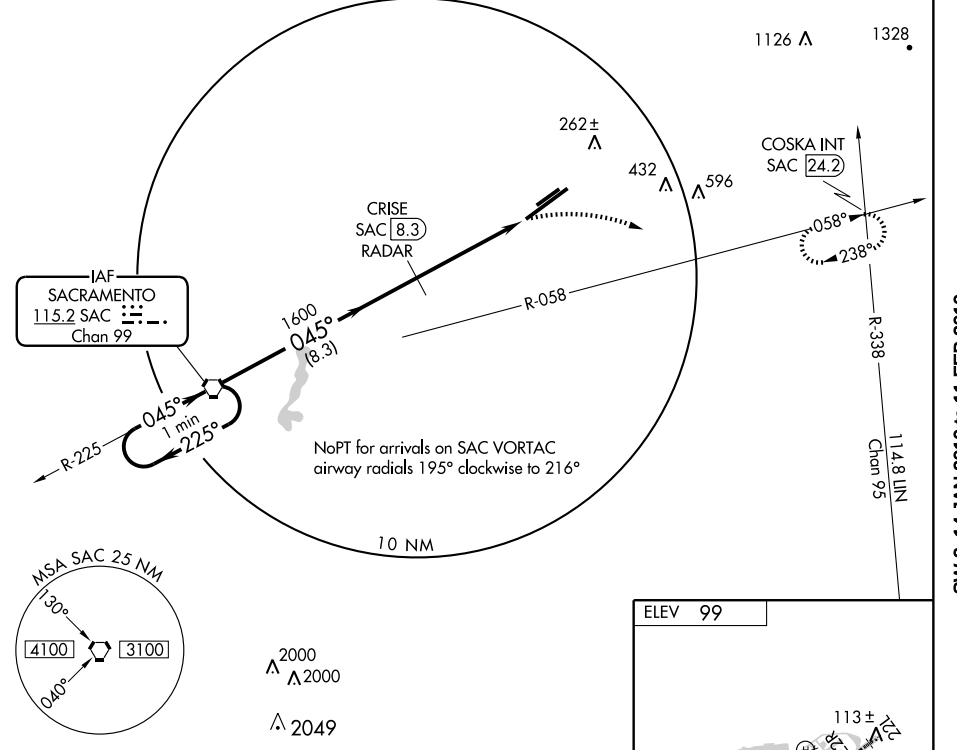
CATEGORY	A	B	C	D
S-22L	740-1/2 644 (700-1/2)		740-1 1/4 644 (700-1 1/4)	740-1 1/2 644 (700-1 1/2)
CIRCLING	740-1 641 (700-1)		740-1 3/4 641 (700-1 3/4)	740-2 641 (700-2)

Circling not authorized north of Rwy 4L-22R.

MISSED APPROACH: Climbing right turn to 3000 via heading 090° and SAC R-058 to COSKA Int/SAC 24.2 DME and hold.

ATIS 118.325	NORCAL APP CON 127.4 317.5	MATHER TOWER 120.65 282.25	GND CON 121.85 307.9	CLNC DEL 121.85 307.9
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RADAR or DME REQUIRED



CATEGORY	A	B	C	D
S-4R	560-1 481 (500-1)		560-1 1/4 481 (500-1 1/4)	560-1 1/2 481 (500-1 1/2)
CIRCLING	560-1 461 (500-1)		560-1 1/2 461 (500-1 1/2)	660-2 561 (600-2)

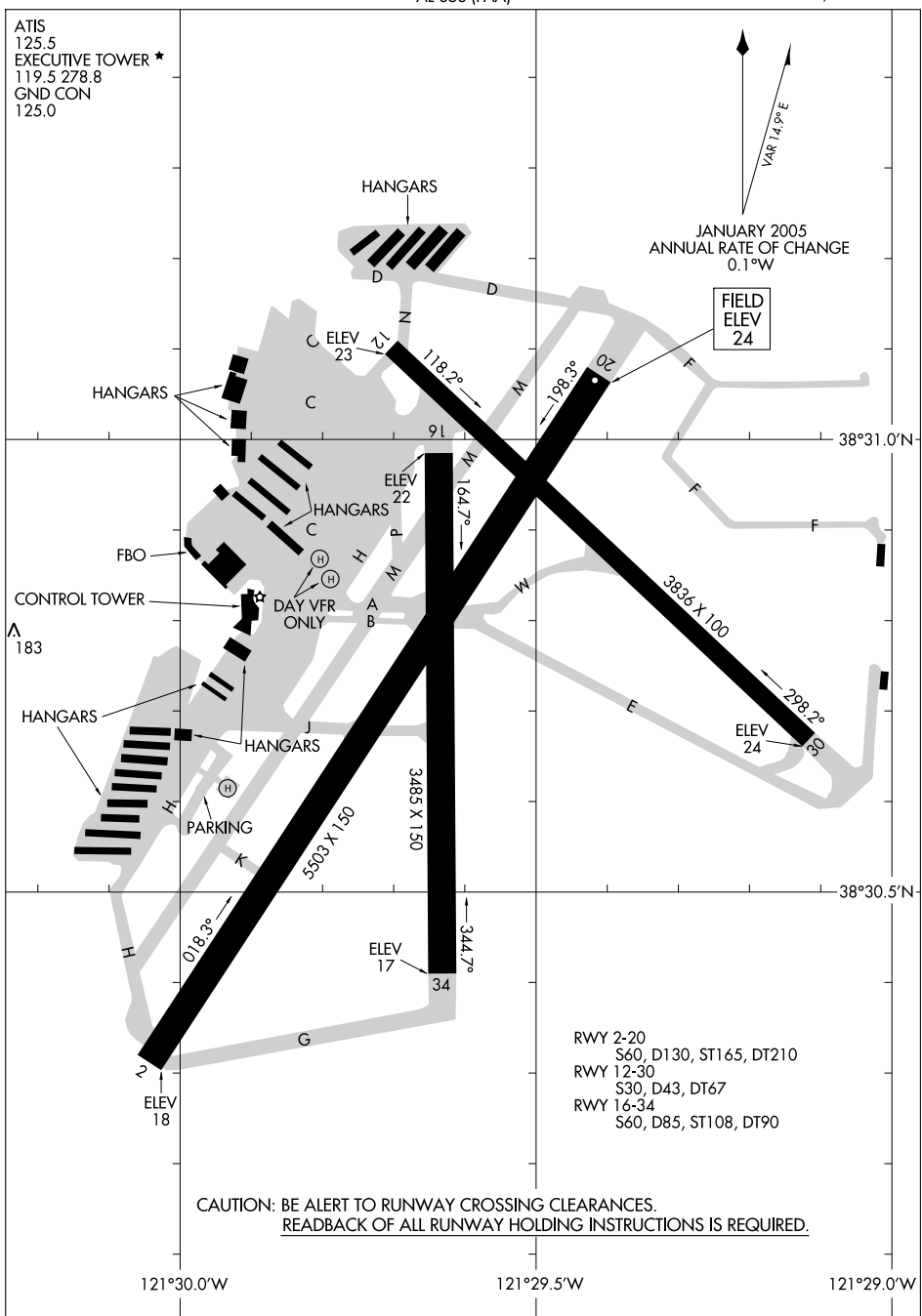
MIRL Rwy 4L-22R					
HIRL Rwy 4R-22L					
FAF to MAP 4.5 NM					
Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30

SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-358 (FAA)

SACRAMENTO EXECUTIVE (SAC)
SACRAMENTO, CALIFORNIA



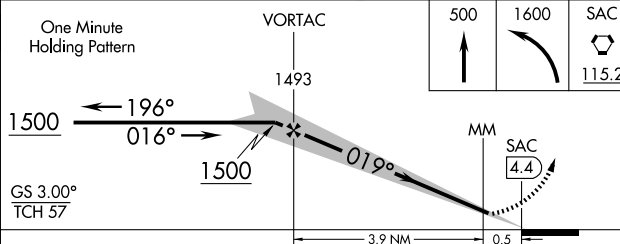
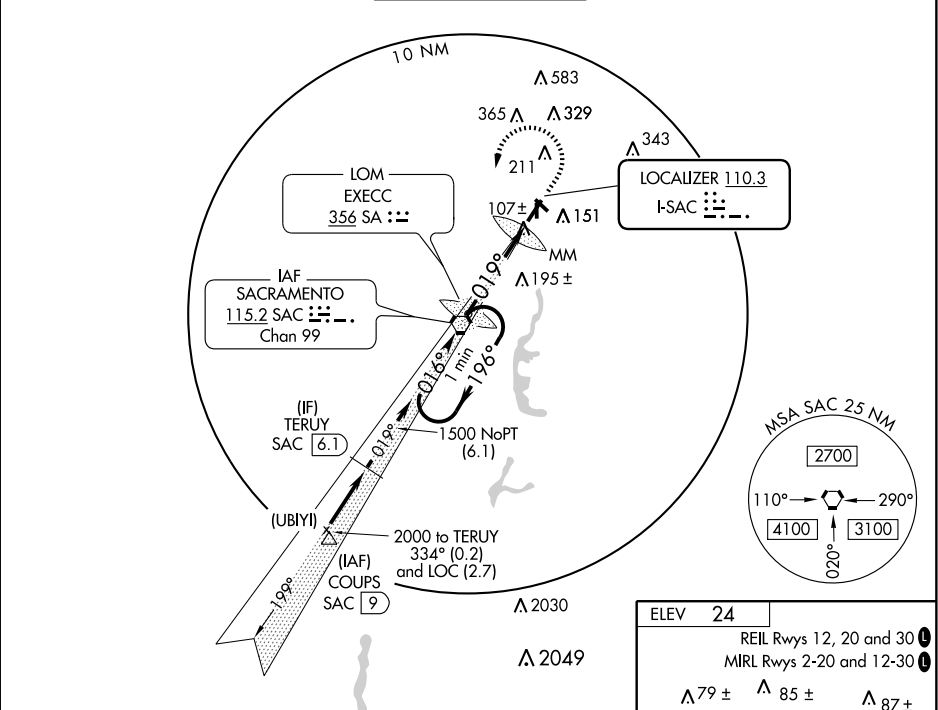
LOC I-SAC	APP CRS	Rwy Idg	5503
110.3	019°	TDZE	21
		Apt Elev	24

ILS or LOC RWY 2
SACRAMENTO EXECUTIVE (SAC)

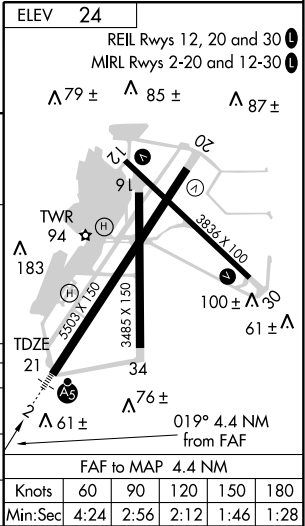
For inoperative MALS, when using local altimeter setting, increase S-LOC 2 all Cats visibility to 1 mile, when using Sacramento Intl altimeter setting increase S-LOC 2 Cat D visibility to 1¼ mile. Inoperative table does not apply to S-ILS 2. Visibility reduction by helicopters NA. When local altimeter setting not received, use Sacramento Intl altimeter setting and increase all DA/MDA 40 feet.

MALS
MISSED APPROACH: Climb to 500, then climbing left turn to 1600 direct SAC VORTAC and hold.

ATIS	NORCAL APP CON	EXEC TOWER*	GND CON	UNICOM
125.5	125.25 257.9 (SE-NW)	119.5 (CTAF) 278.8	125.0	122.95



CATEGORY	A	B	C	D
S-ILS 2		221-¾	200 (200-¾)	
S-LOC 2		360-¾	339 (400-¾)	
CIRCLING	500-1 476 (500-1)	520-1 496 (500-1)	520-1½ 496 (500-1½)	580-2 556 (600-2)



WAAS CH 62810 W02A	APP CRS 019°	Rwy Idg TDZE Apt Elev	5503 21 24
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RNAV (GPS) RWY 2
SACRAMENTO EXECUTIVE (SAC)

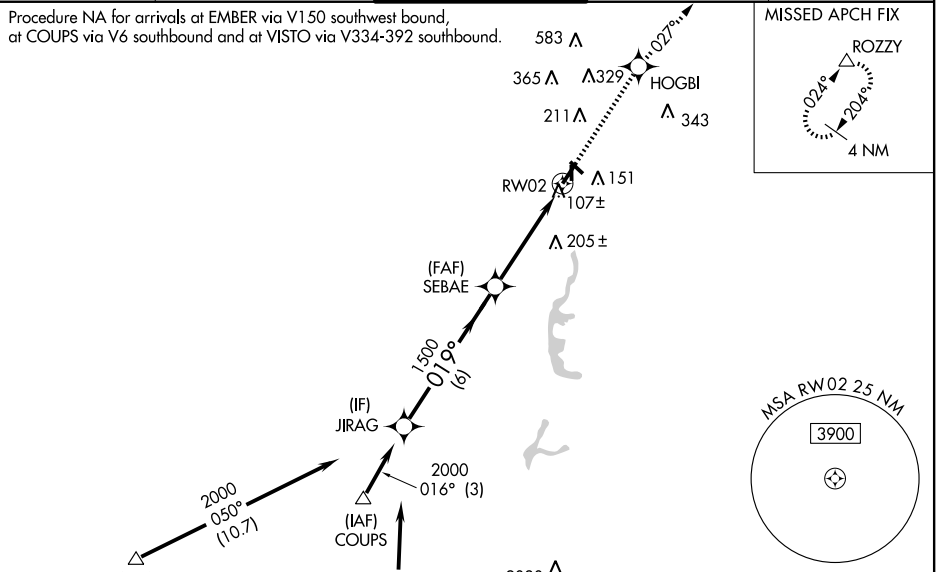
▼ For inoperative MALS, when using local altimeter setting, increase LNAV Cats A, B visibility to 1 mile and Cat D to 1½. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). Inoperative table does not apply to LPV. DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Sacramento Intl altimeter setting and increase all DA/MDA 40 feet. VDP and Baro-VNAV NA when using Sacramento Intl altimeter setting.

MALS

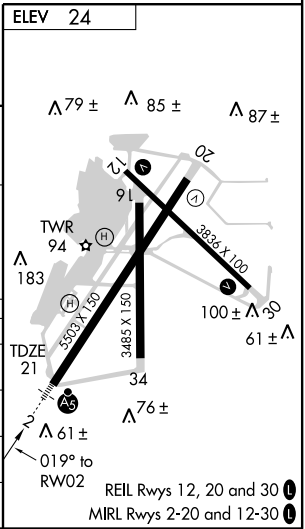
MISSED APPROACH: Climb to 3000 direct HOGBI and via 027° track to ROZZY and hold.

ATIS 125.5	NORCAL APP CON 125.25 257.9 (SE-NW)	EXEC TOWER ★ 119.5 (CTAF) 0 278.8	GND CON 125.0	UNICOM 122.95
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Procedure NA for arrivals at EMBER via V150 southwest bound, at COUPS via V6 southbound and at VISTO via V334-392 southbound.



Procedure Turn NA		JIRAG	SEBAE	HOGBI	027° track	ROZZY
2000		1500	3000			
GS 3.00° TCH 57						
6 NM		3.2 NM	1.2 NM			
CATEGORY	A	B	C	D		
LPV DA		221-¾	200 (200-¾)			
LNAV/ VNAV DA		373-¾	352 (400-¾)			
LNAV MDA		440-¾	419 (500-¾)			
CIRCLING	500-1 476 (500-1)	520-1 496 (500-1)	520-1½ 496 (500-1½)	580-2 556 (600-2)		



VOR RWY 2

SACRAMENTO EXECUTIVE (SAC)

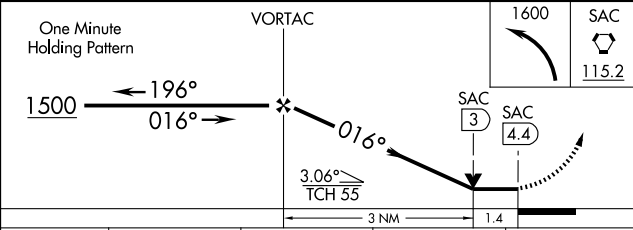
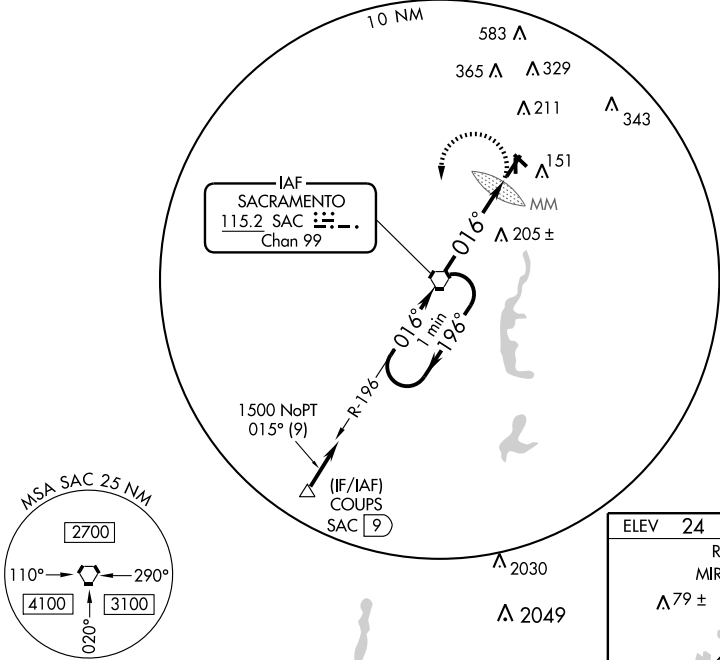
VORTAC SAC	APP CRS	Rwy Idg	5503
115.2	016°	TDZE	21
Chan 99		Apt Elev	24

- ▼ For inoperative MALSR, increase S-2 Cats A, B visibility to 1 mile.
Visibility reduction by helicopters NA.
- ▲ When local altimeter setting not received, use Sacramento Intl altimeter setting and increase all MDA 40 feet and S-2 Cats C, D visibilities ¼ mile. VDP NA when using Sacramento Intl altimeter setting.

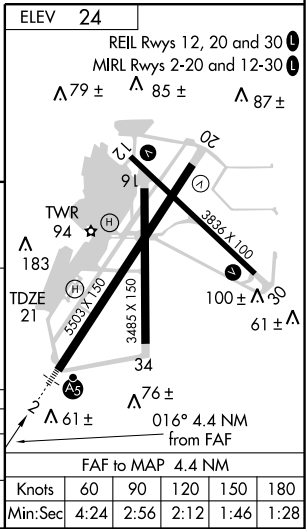


MISSED APPROACH: Climbing left turn to 1600 direct SAC VORTAC and hold.

ATIS	NORCAL APP CON	EXEC TOWER ★	GND CON	UNICOM
125.5	125.25 257.9 (SE-NW)	119.5 (CTAF) 278.8	125.0	122.95



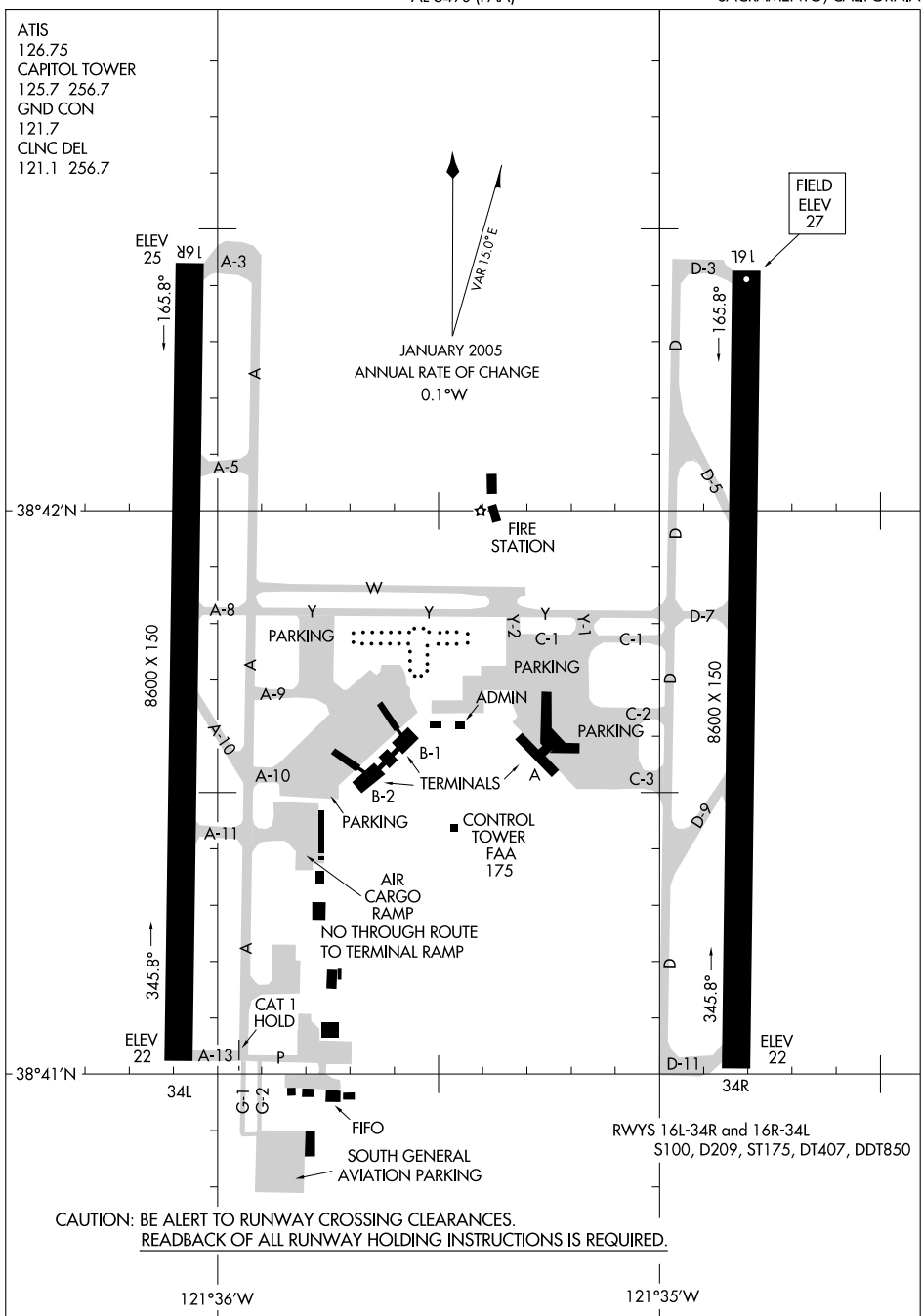
CATEGORY	A	B	C	D
S-2	520-3/4	499 (500-3/4)	520-1	499 (500-1)
CIRCLING	520-1	496 (500-1)	520-1 1/2	580-2
			496 (500-1 1/2)	556 (600-2)



Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

AIRPORT DIAGRAM

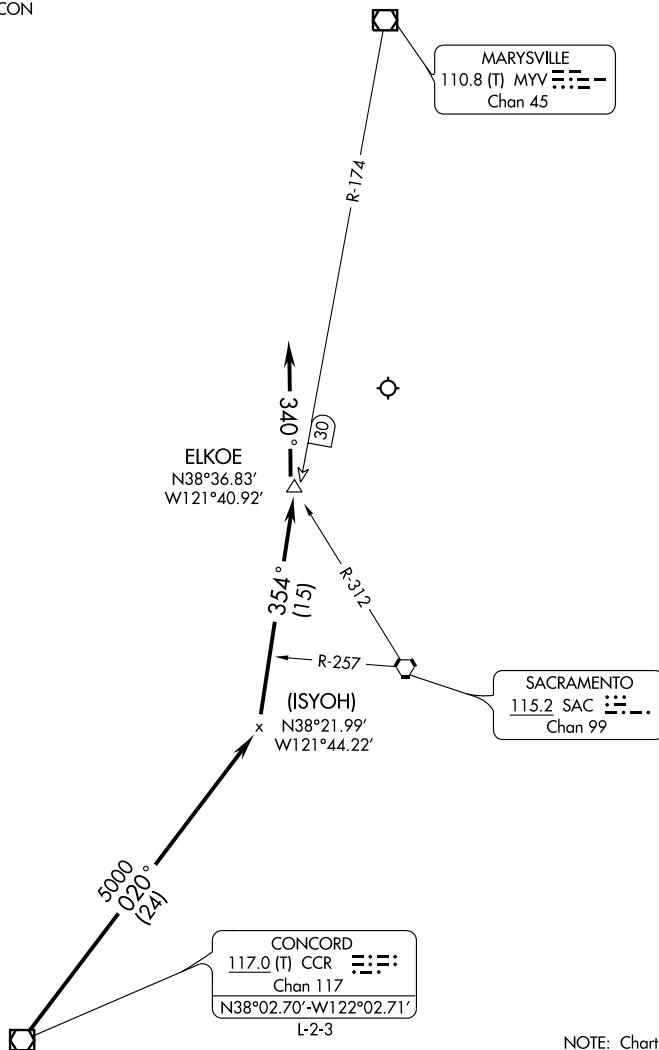
AL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA

SW-2 14 JAN 2010 to 11 FEB 2010

CONCORD ONE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIANORCAL APP CON
125.25 257.9

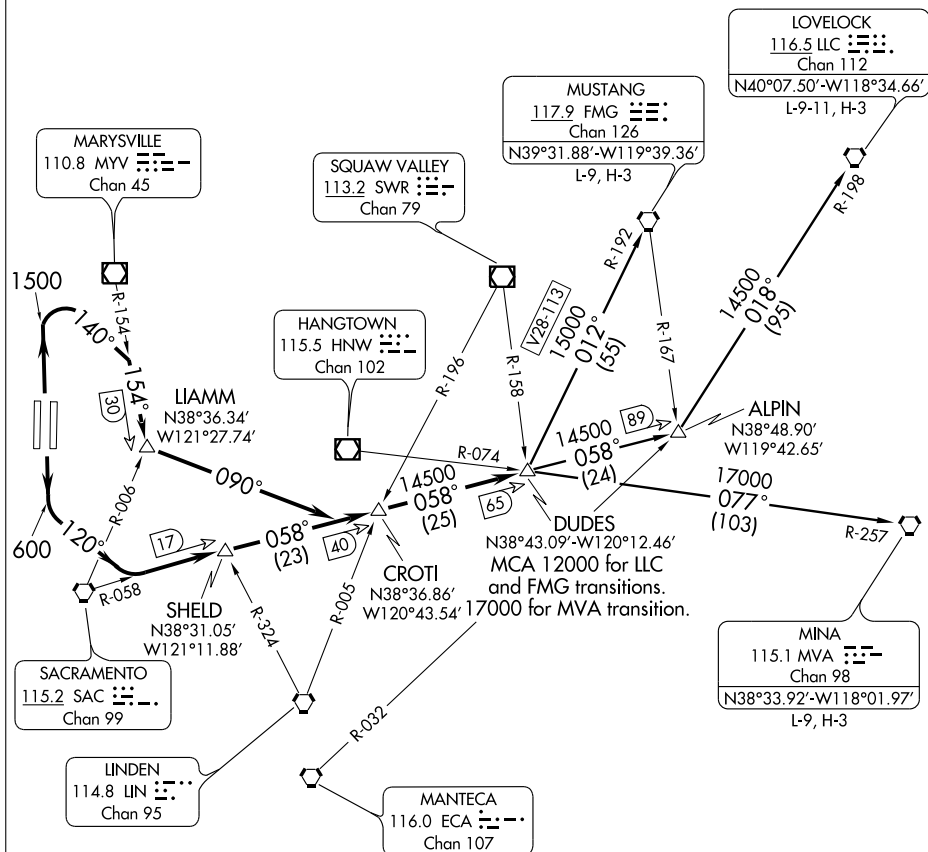
From over CCR VOR/DME via CCR R-020 and the MYV R-174 to ELKOE INT then via heading 340° for radar vector to final approach course. Expect descent below 10,000 after passing the SAC R-257.

DUDES NINE DEPARTURE

SL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA

CLNC DEL
121.1 256.7
NORCAL DEP CON
(S-SW) 125.25 257.9
(W-N) 134.8 270.25
(NE) 125.4 259.1
(E-SE) 127.4 317.5



NOTE: RADAR Required.

NOTE: DME Required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Maintain runway heading until 600', then turn left to a 120° heading to intercept and proceed via the SAC R-058 to DUDES INT, then via (transition) or (assigned route). Expect further clearance to filed altitude after CROTI INT.

TAKE-OFF RUNWAYS 34L/R: Maintain runway heading until 1500', then turn right to a 140° heading to intercept and proceed via the MYV R-154 to LIAMM INT, then turn left to a 090° heading to intercept and proceed via the SAC R-058 to DUDES INT, then via (transition) or (assigned route). Expect further clearance to filed altitude after CROTI INT.

LOST COMMUNICATIONS: Take-off runways 34L/R: Maintain runway heading until 1500', then turn right heading 140° to intercept and proceed via the MYV R-154 to intercept and proceed via the SAC R-058 to DUDES INT. Then resume own navigation.

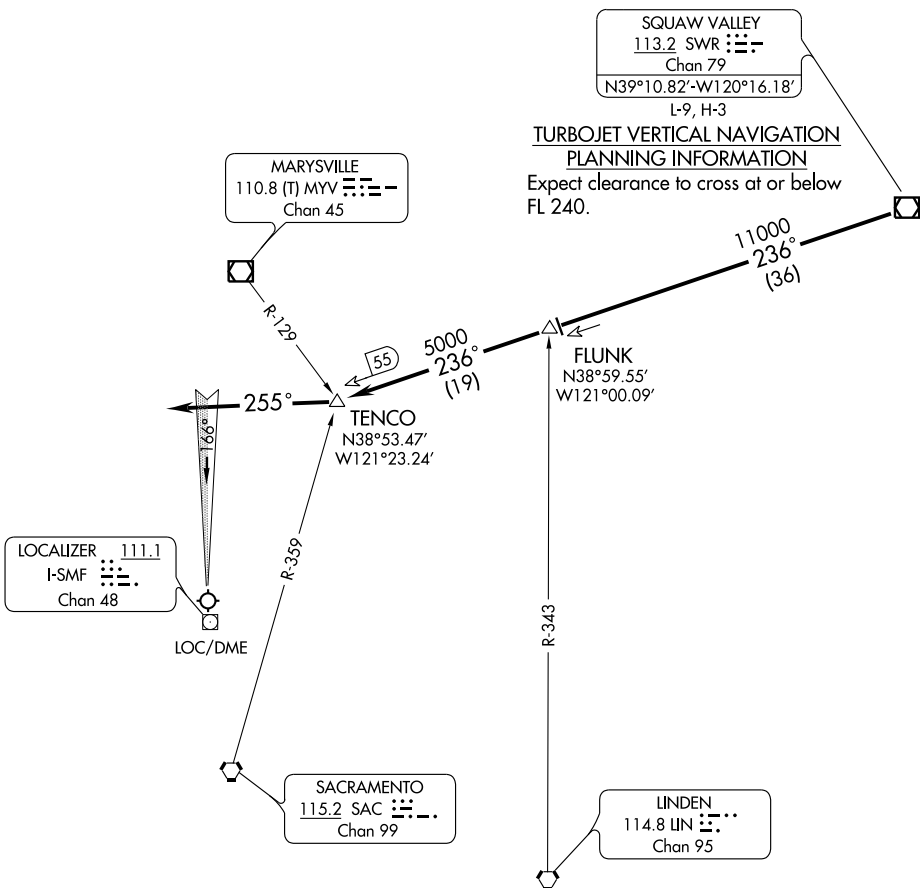
LOVELOCK TRANSITION (DUDES9.LLC): From over DUDES INT via the SAC R-058 and the LLC R-198 to LLC VORTAC.

MINA TRANSITION (DUDES9.MVA): From over DUDES INT via the MVA R-257 to MVA VORTAC.

MUSTANG TRANSITION (DUDES9.FMG): From over DUDES INT via the FMG R-192 to FMG VORTAC.

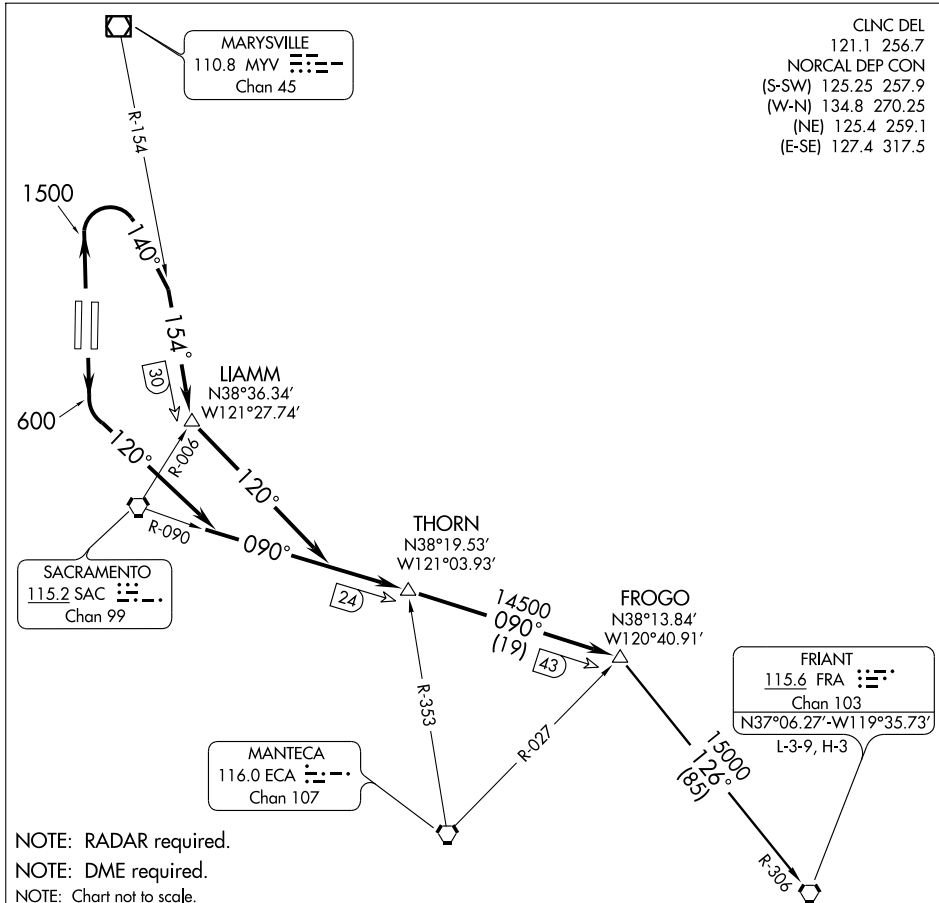
FLUNK THREE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIANORCAL APP CON
120.45 353.7

NOTE: Chart not to scale.

From over SWR VOR/DME via SWR R-236 to TENCO INT. Depart TENCO INT heading 255° for vector to final approach course. Expect descent below 10000' passing FLUNK INT.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Maintain runway heading until 600', then turn left heading 120° to intercept and proceed via the SAC R-090 to FROGO INT. Then via (transition) or (assigned route). Expect further clearance to filed altitude after THORN INT.

TAKE-OFF RUNWAYS 34L/R: Maintain runway heading until 1500', then turn right heading 140° to intercept the MYV R-154. Intercept and proceed via the MYV R-154 to LIAMM INT, then turn left heading 120° to intercept and proceed via the SAC R-090 to FROGO INT. Then via (transition) or (assigned route). Expect further clearance to filed altitude after LIAMM INT.

LOST COMMUNICATIONS: Take-off Runways 34L/R: Maintain runway heading until 1500' then turn right heading 140° to intercept the MYV R-154. Intercept and proceed via the MYV R-154 to intercept the SAC R-090 to FROGO INT. Then resume own navigation.

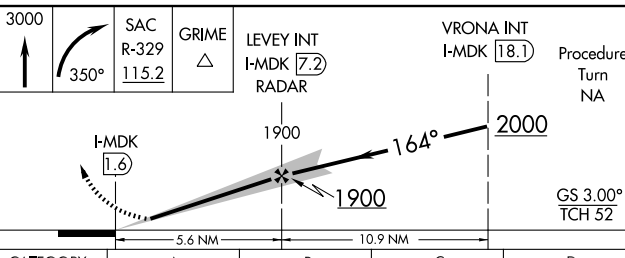
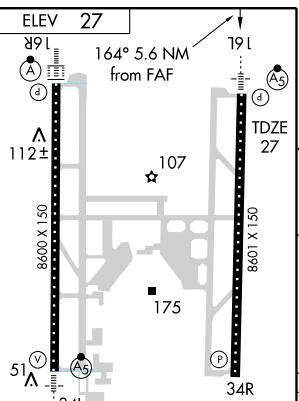
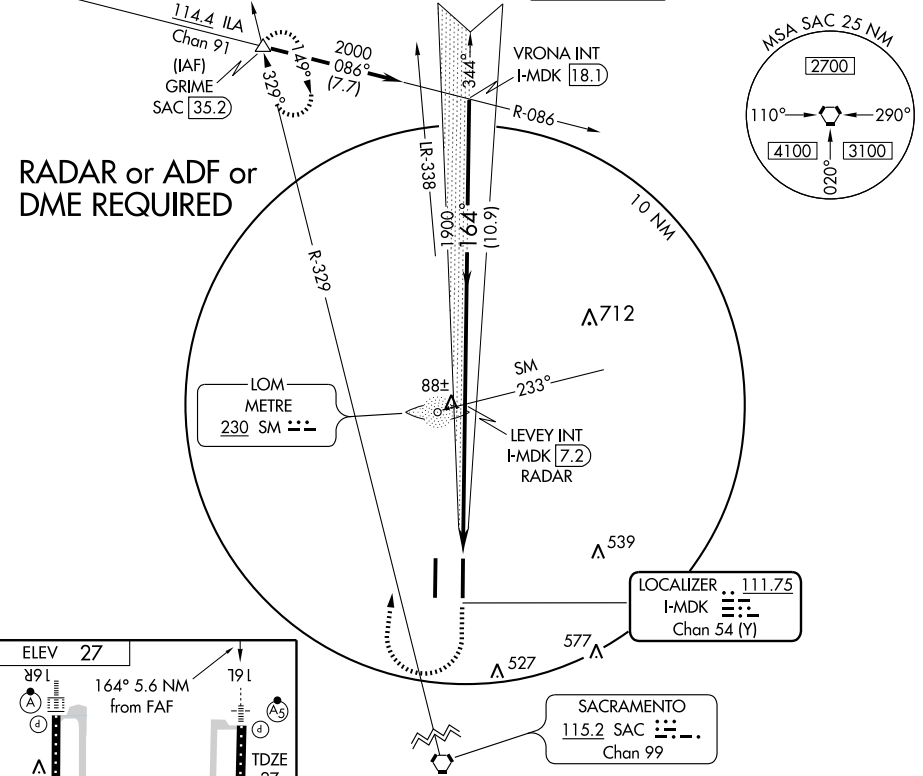
FRIANT TRANSITION (FROGO6.FRA): From over FROGO INT via FRA R-306 to FRA VORTAC.

LOC/DME I-MDK	APP CRS	Rwy Idg	8601
111.75	164°	TDZE	27
Chan 54 (Y)		Apt Elev	27

For inoperative MALSR, increase S-LOC Cat D visibility to 1 mile.
Circling not authorized west of Rwy 16L-34R.

MISSED APPROACH: Climb to 3000, then right turn via heading 350° and SAC R-329 to GRIME INT/SAC 35.2 DME and hold.

ATIS 126.75	NORCAL APP CON (S-SW) 125.25 257.9 (NE) 125.4 259.1 (W-N) 134.8 270.25 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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TDZ/CL Rwy 16L and 16R					
HIRL Rwy 16R-34L and 16L-34R					
FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52
CATEGORY	A		B		D
S-ILS 16L	227-½		200 (200-½)		
S-LOC 16L	340-½		313 (400-½)		340-¾ 313 (400-¾)
CIRCLING	440-1		480-1		580-2
	413 (500-1)		453 (500-1)		553 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

⚠

Circling not authorized east of Rwy 16R-34L.

ALSF-2

MISSED APPROACH: Climb to 500, then climbing right turn to 2000 via heading 350° and SAC R-329 to GRIME Int/SAC 35.2 DME and hold.

ATIS 126.75	NORCAL APP CON (W-N) 134.8 270.25 (S-W) 125.25 257.9	(NE) 125.4 259.1 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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RADAR or DME REQUIRED

TUDOR INT I-SMF 18.6	JARNU I-SMF 7.2 RADAR	500	2000	SAC R-329 115.2	GRIME △
Procedure Turn NA	GS 3.00° TCH 57	166°	1800	I-SMF 1.8	
2000	1800	11.4 NM	4.9 NM	0.3 0.1	

CATEGORY	A	B	C	D
S-ILS 16R	225/18 200 (200-½)			
S-LOC 16R	400/24 375 (400-½)			400/40 375 (400-¾)
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

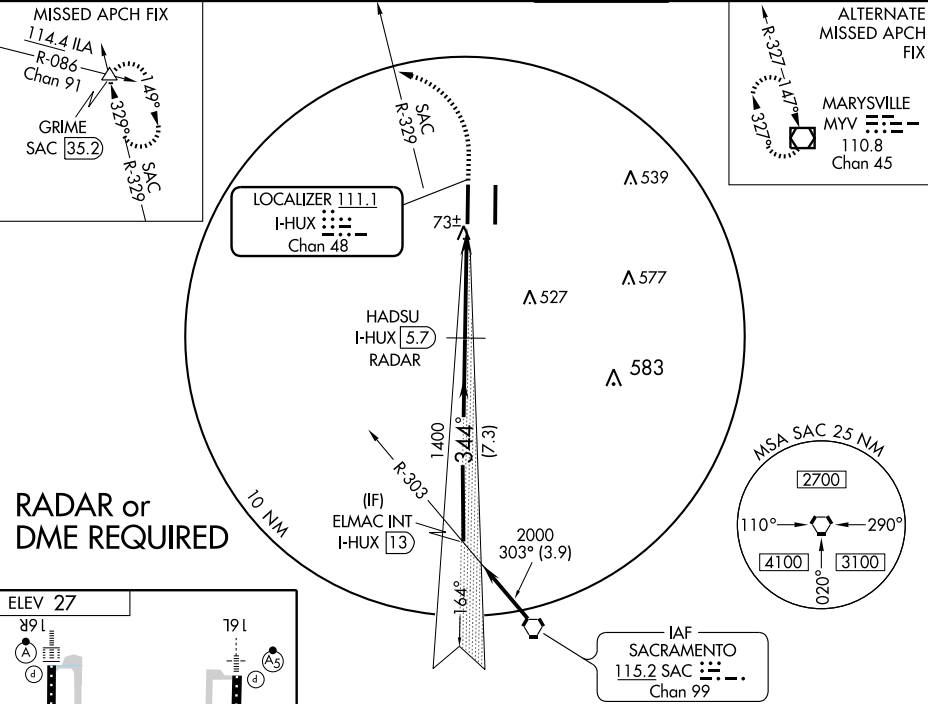
LOC/DME I-HUX	APP CRS	Rwy Idg	8600
111.1	344°	TDZE	24
Chan 48		Apt Elev	27

V VDP NA with Sacramento Executive altimeter setting.
A For inoperative MALSR increase S-LOC 34L Cat. D visibility to RVR 5000.
Circling NA east of Rwy 16R/34L.
If local altimeter setting not received, use Sacramento Executive altimeter setting and increase all DA/MDAs 40 feet.
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

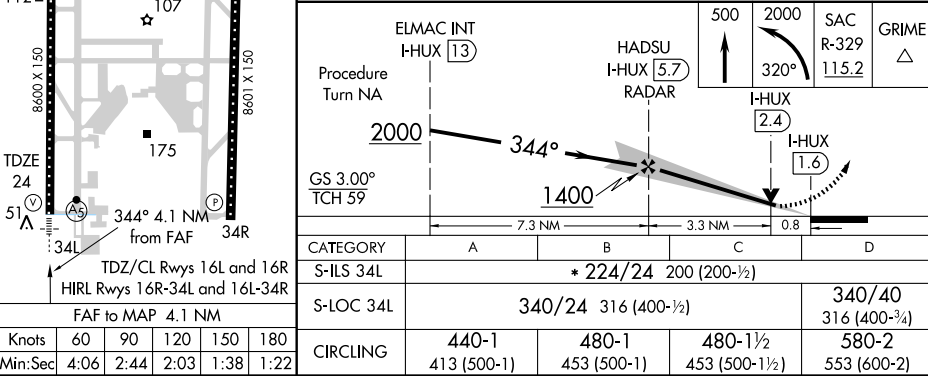
MALSR

MISSED APPROACH: Climb to 500, then
descending left turn to 2000 via heading 320°
and SAC R-329 to GRIME INT/SAC 35.2
DME and hold.

ATIS	NORCAL APP CON		CAPITAL TOWER	GND CON	CLNC DEL
126.75	(W-N) 134.8	270.25	(NE) 125.4	259.1	
	(S-SW) 125.25	257.9	(E-SE) 127.4	317.5	



Procedure NA for arrivals on SAC VORTAC airway radials 257 CW 329.



LOC/DME I-SMF
111.1
Chan **48**

APP CRS
166°

Rwy Idg	8600
TDZE	25
Apt Elev	27

ILS RWY 16R (CAT II)
SACRAMENTO INTL (SMF)



ALSF-2



MISSED APPROACH: Climb to 500, then climbing right turn to 2000 via heading 350° and SAC R-329 to GRIME Int/SAC 35.2 DME and hold.

ATIS
126.75

NORCAL APP CON

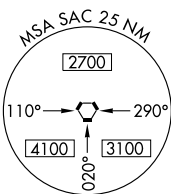
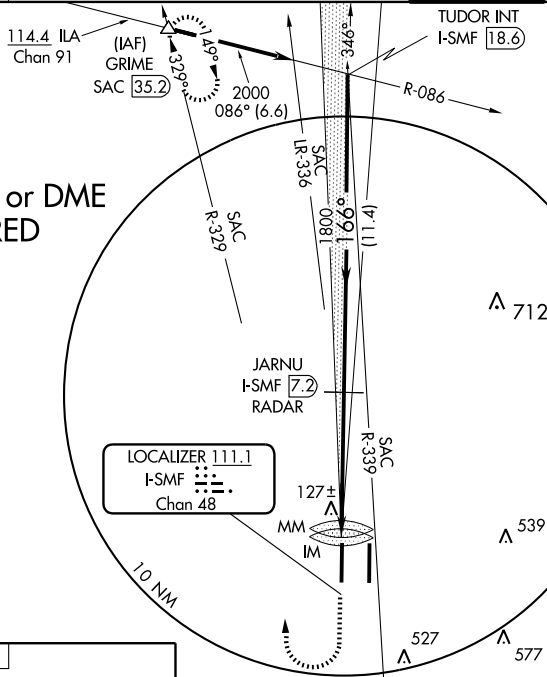
(W-N) **134.8 270.25** (NE) **125.4 259.1**
(S-SW) **125.25 257.9** (E-SE) **127.4 317.5**

CAPITAL TOWER
125.7 256.7

GND CON
121.7

CLNC DEL
121.1 256.7

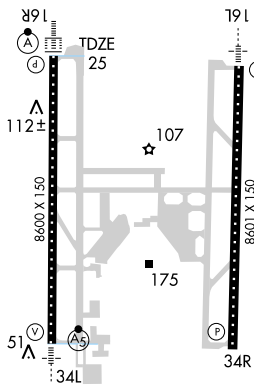
**RADAR or DME
REQUIRED**



LOCALIZER 111.1
I-SMF
Chan 48

SACRAMENTO
115.2 SAC 
Chan 99

ELEV 27

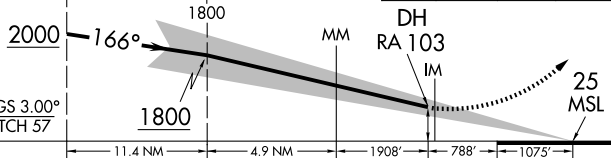
TUDOR INT
I-SMF 18.6JARNU
I-SMF 7.2

Procedure



SAC
R-329
<u>115.2</u>

GRIME
△



CATEGORY	A	B	C
S-ILS 16R	RA 125/12 100 DA 103		

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

SW-2 14 JAN 2010 to 11 FEB 2010

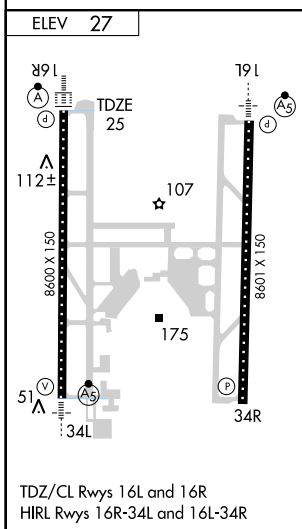
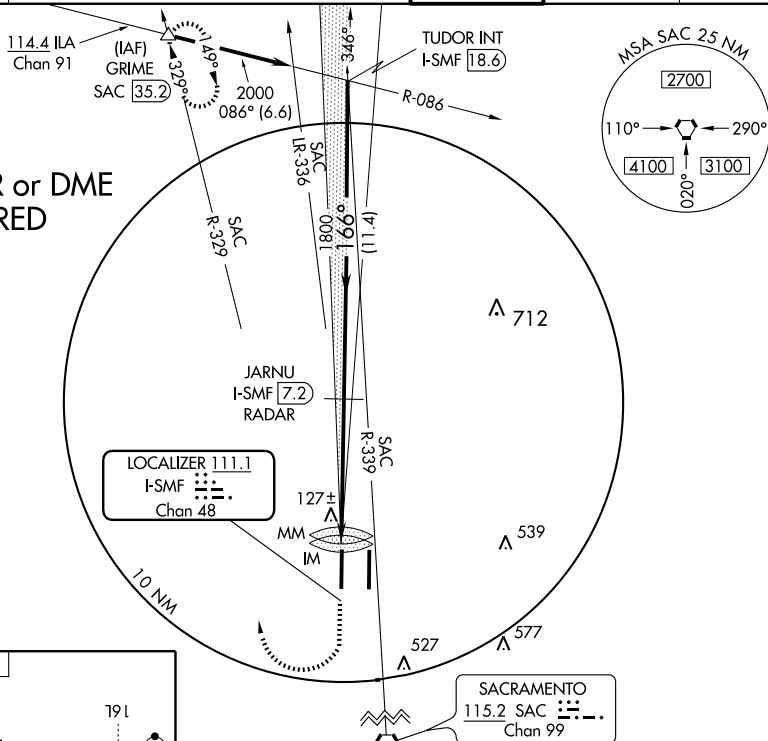
TDZ/CL Rwy 16L and 16R
HIRL Rwy 16R-34L and 16L-34R

LOC/DME I-SMF 111.1 Chan 48	APP CRS 166°	Rwy Idg TDZE Apt Elev 8600 25 27
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ILS RWY 16R (CAT III)

SACRAMENTO INTL (SMF)

		ALSF-2 		MISSED APPROACH: Climb to 500, then climbing right turn to 2000 via heading 350° and SAC R-329 to GRIME Int/SAC 35.2 DME and hold.			
ATIS 126.75	NORCAL APP CON (W-N) 134.8 270.25 (NE) 125.4 259.1 (S-SW) 125.25 257.9 (E-SE) 127.4 317.5				CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7

RADAR or DME
REQUIRED

TUDOR INT I-SMF 18.6		JARNU I-SMF 7.2 RADAR	Procedure Turn NA	500 ↑	2000 	SAC R-329 115.2	GRIME △
2000		1800	MM 224	IM 123	25 MSL		
GS 3.00° TCH 57		11.4 NM	4.9 NM	1920'	776'	1075'	
CATEGORY	A	B	C	D			
S-ILS 16R	CAT III _a		RVR 07				
S-ILS 16R	CAT III _b		RVR 06				
S-ILS 16R	CAT III _c		NA				

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

RNAV (GPS) RWY 16L
SACRAMENTO INTL (SMF[®])

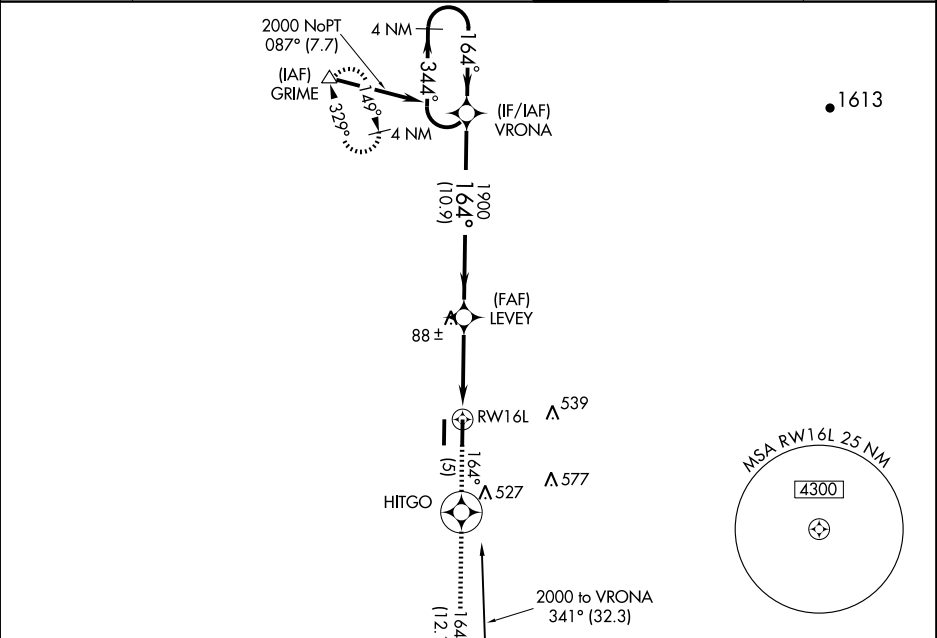
APP CRS 164°	Rwy Idg TDZE Apt Elev	8601 27 27
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▼ DME/DME RNP- 0.3 NA. Inoperative table does not apply to LNAV Cat. D.
▲ For inoperative MALSR, increase LNAV Cat D visibility to 1¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F)
or above 49°C (120°F). Circling NA west of Rwy 16L-34R.

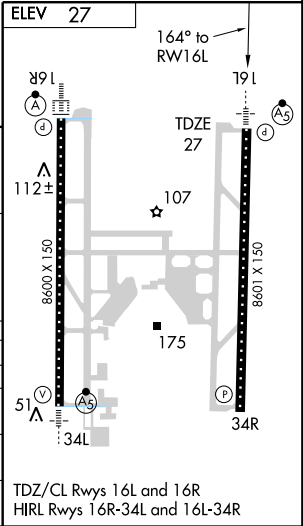
MALSR


MISSED APPROACH: Climb to 3000
via 164° course to HITGO WP, then
via track 164° to TAGNE WP, then
right turn direct GRIME WP and hold.

ATIS 126.75	NORCAL APP CON (W-N) 134.8 270.25 (S-SW) 125.25 257.9	(NE) 125.4 259.1 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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4 NM Holding Pattern	VRONA	3000	HITGO	164°	TAGNE	GRIME
2000	← 344°	164° →	164°	1900	0.8 NM to RW16L	* LNAV only
VGSI and descent angle not coincident.	10.9 NM	4.8 NM	0.8	GS 3.00° TCH 64		
CATEGORY	A	B	C	D		
GLS PA DA						
LNAV/VNAV DA		418-¾	391 (400-¾)			
LNAV MDA		380-½	353 (400-½)		380-1	353 (400-1)
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)		580-2 553 (600-2)	



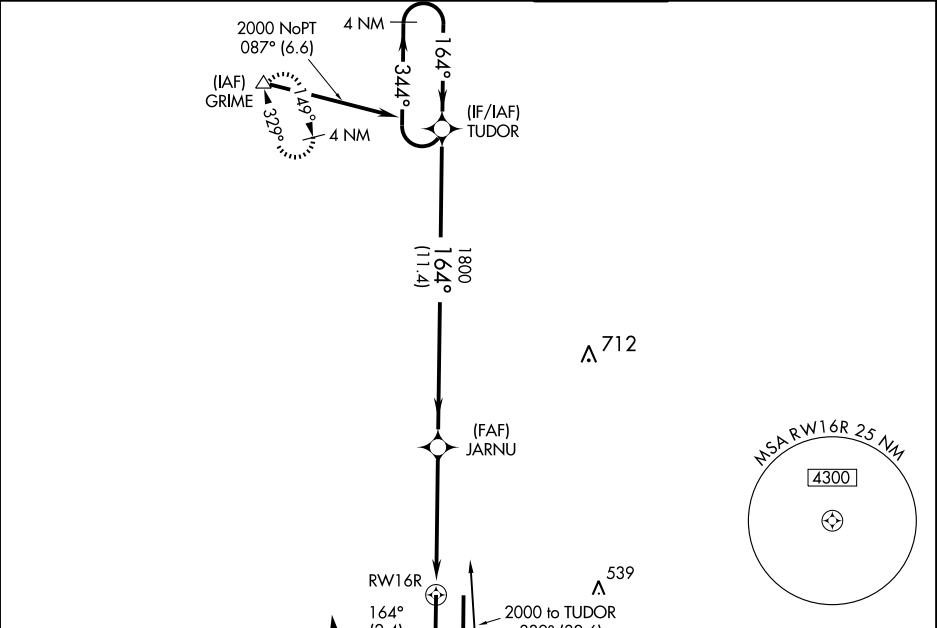
APP CRS	Rwy Idg	8600
164°	TDZE	25
	Apt Elev	27

RNAV (GPS) RWY 16R

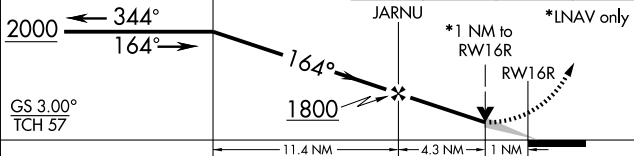
SACRAMENTO INTL (SMF[®])

▼ Circling NA east of Rwy 16R-34L. DME/DME RNP- 0.3 NA. ▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). For inoperative ALSF-2 increase LNAV Cat D visibility to RVR 6000.	ALSF-2 A	MISSED APPROACH: Climb to 2000 via 164° course to HELOT WP, then right turn direct GRIME WP and hold.
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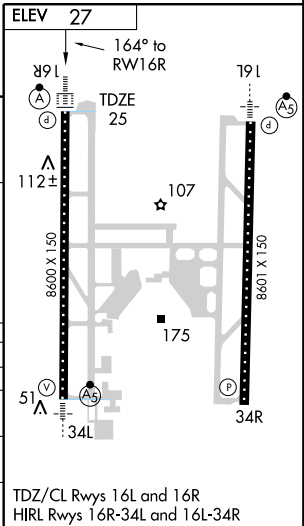
ATIS 126.75	NORCAL APP CON (W-N) 134.8 270.25 (S-SW) 125.25 257.9	(NE) 125.4 259.1 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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VGSi and RNAV glidepath angle not coincident.	2000	HELOT	GRIME
4 NM Holding Pattern	164°		



CATEGORY	A	B	C	D
GLS PA DA				
LNAV/VNAV DA		409/40	384 (400-34)	
LNAV MDA		400/24	375 (400-1/2)	400/50 375 (400-1)
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1 1/2 453 (500-1 1/2)	580-2 553 (600-2)



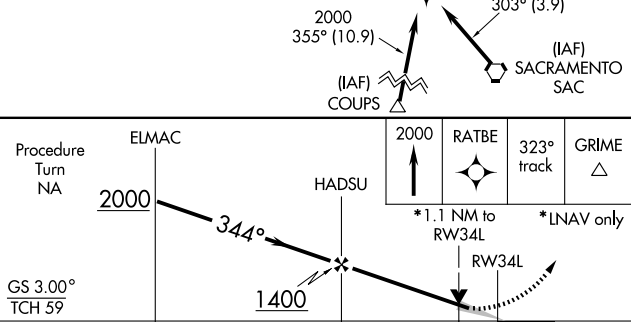
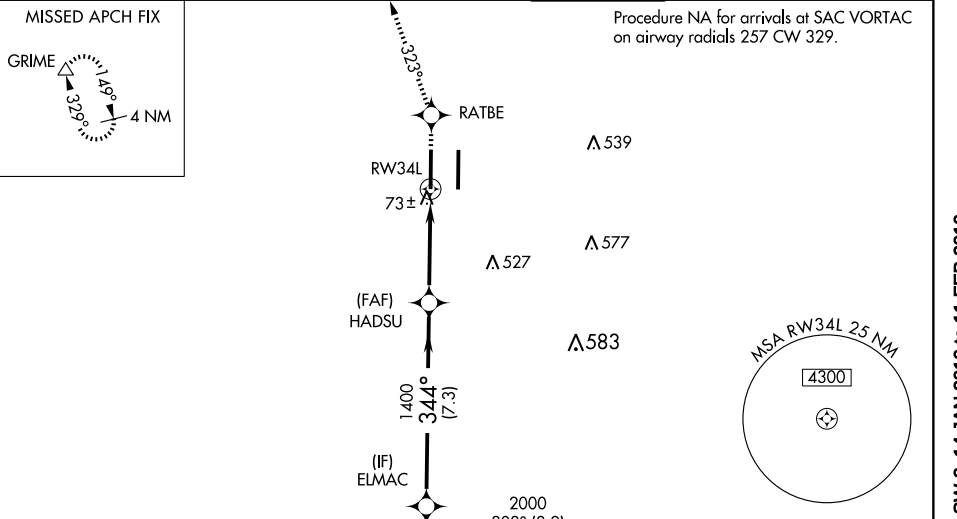
WAAS CH 86602 W34A	APP CRS 344°	Rwy Idg TDZE Apt Elev	8600 24 27
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▼ DME/DME RNP- 0.3 NA. Circling NA east of Rwy 16R-34L.
▲ For inoperative MALSR, increase LNAV/VNAV Cat. D visibility to RVR 5000 and LNAV Cat. D visibility to RVR 6000.
For inoperative MALSR, increase LPV all Cats. visibility to RVR 4000.
Baro-VNAV NA when using Sacramento Executive altimeter setting.
If local altimeter setting not received, use Sacramento Executive altimeter setting and increase all DAs/MDAs 40 feet.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 48°C (119°F).
VDP NA with Sacramento Executive altimeter setting.

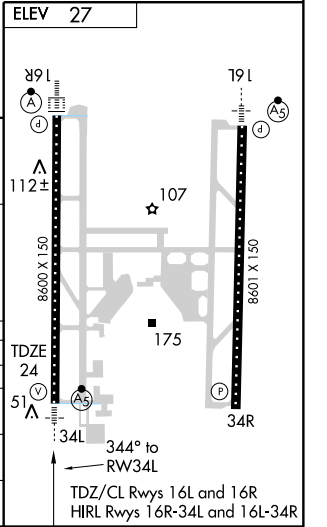
MALSR

MISSED APPROACH: Climb to 2000 direct RATBE and via 323° track to GRIME and hold.

ATIS 126.75	(W-N) 134.8 270.25 (S-SW) 125.25 257.9	NORCAL APP CON (NE) 125.4 259.1 (E-SE) 127.4 317.5	CAPITAL TOWER 125.7 256.7	GND CON 121.7	CLNC DEL 121.1 256.7
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CATEGORY	A	B	C	D
LPV DA	274/24		250 (300-½)	
LNAV/VNAV DA	336/24		312 (400-½)	
LNAV MDA	420/24		396 (400-½)	
CIRCLING	440-1 413 (500-1)	480-1 453 (500-1)	480-1½ 453 (500-1½)	580-2 553 (600-2)



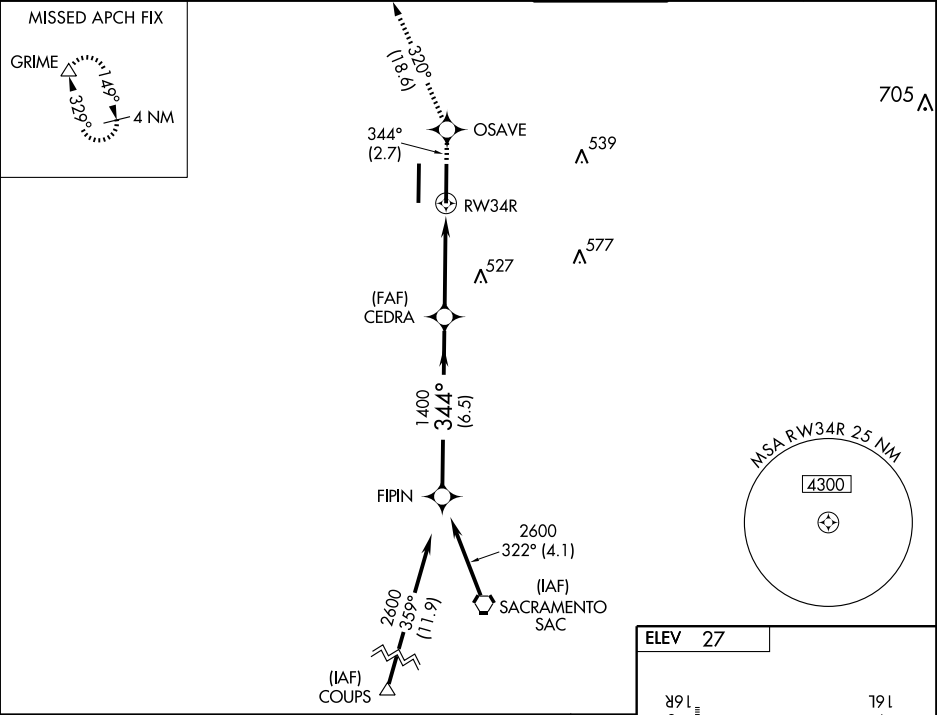
RNAV (GPS) RWY 34R
SACRAMENTO INTL (SMF)

APP CRS	Rwy Idg	8601
344°	TDZE	24
	Apt Elev	27

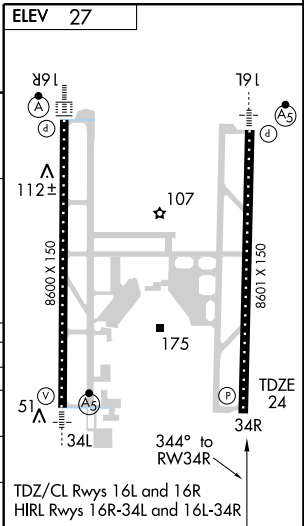
For uncompensated Baro/VNAV systems, Baro-VNAV NA below -15°C (5°F) or above 48°C (118°F).
Circling not authorized west of Rwy 16L-34R.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2000 via 344° course to OSAVE WP, then left turn via 320° track to GRIME WP and hold.

ATIS	NORCAL APP CON			CAPITAL TOWER	GND CON	CLNC DEL
126.75	(W-N) 134.8	270.25	(NE) 125.4	259.1	121.7	121.1
	(S-SW) 125.25	257.9	(E-SE) 127.4	317.5		256.7



Procedure Turn NA		FIPIN		CEDRA		2000 ↑ 344°		OSAVE ✦		320° ↷		GRIME △	
		2600		1400		* 2 NM to RW34R				* LNAV only			
GS 3.00° TCH 64		6.5 NM		2.1 NM		2 NM		RW34R					
CATEGORY		A		B		C				D			
GLS PA DA		NA											
LNAV/ VNAV	DA	376-1¼ 352 (400-1¼)											
LNAV MDA		720-1 696 (700-1)				720-2 696 (700-2)				720-2¼ 696 (700-2¼)			
CIRCLING		720-1 693 (700-1)				720-2 693 (700-2)				720-2¼ 693 (700-2¼)			



TUDOR ONE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIA

ATIS 126.75
NORCAL APP CON
120.45 353.7

KLAMATH FALLS
115.9 UMT
Chan 106
N42°09.19'-W121°43.65'
L-2, H-3

LAKEVIEW
112.0 LKV
Chan 57
N42°29.57'-W120°30.43'
L-11, H-3

(OWLEK)
N40°26.47'
W121°43.17'

(OXIHU)
N41°30.24'
W121°06.12'

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

EWOKS
N40°21.48'
W121°42.75'

LOMBO
N39°57.50'
W121°40.69'

BOWLS
N39°30.55'-W121°38.40'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect to cross at 12000'.

(PUJWO)
N39°22.26'
W121°42.55'

WILLIAMS
114.4 IIA
Chan 91
N39°04.27'-W122°01.63'
L-2-3

PIECH
N39°14.57'
W121°37.06'

TUDOR
N38°59.19'
W121°35.79'

METRE
230 SM
N38°47.70'
W121°35.96'

LOCALIZER 111.1
I-SMF
Chan 48

SACRAMENTO
115.2 SAC
Chan 99

NOTE: DME required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

KLAMATH FALLS TRANSITION(LMT.TUDOR1): From over LMT VORTAC via LMT R-163 and SAC R-339 to TUDOR INT. Thence

LAKEVIEW TRANSITION (LKV.TUDOR1): From over LKV VORTAC via LKV R-185 and SAC R-339 to TUDOR INT. Thence

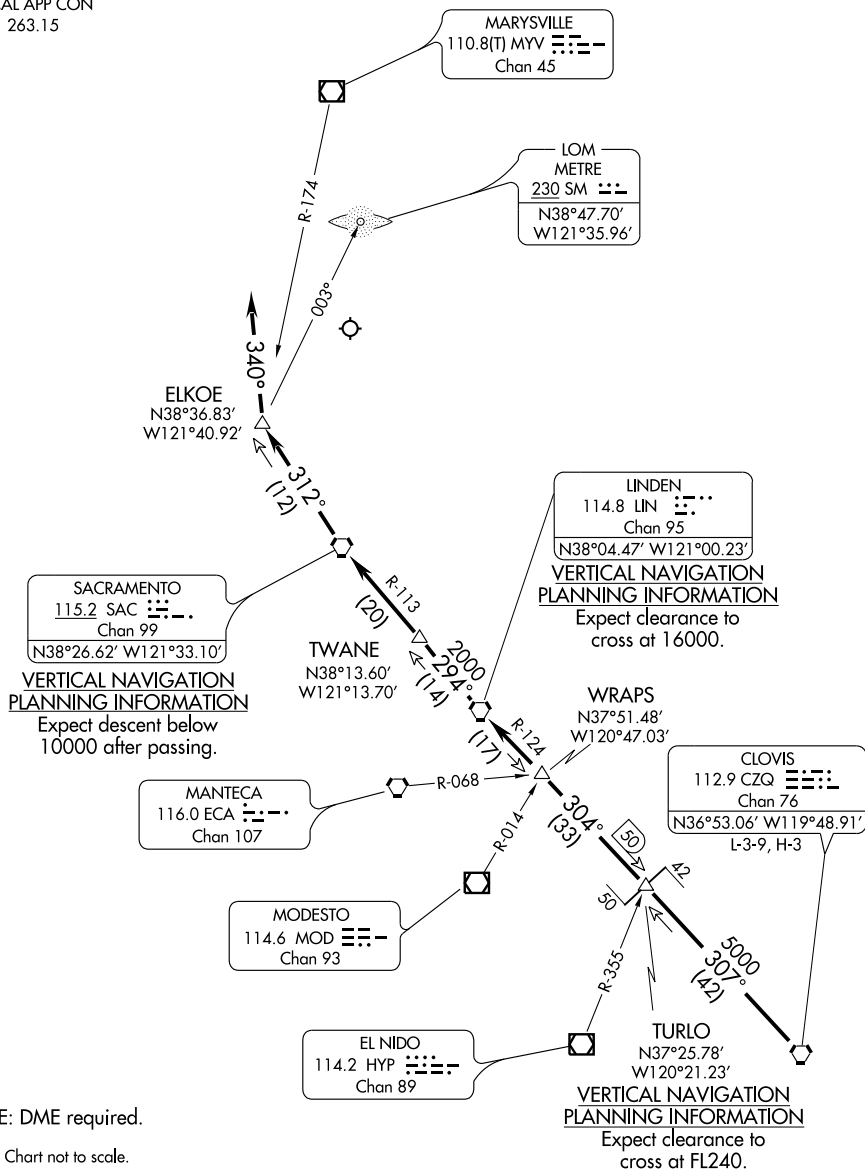
RED BLUFF TRANSITION (RBL.TUDOR1): From over RBL VORTAC via RBL R-133 and SAC R-339 to TUDOR INT. Thence

WILLIAMS TRANSITION (ILA.TUDOR1): From over ILA VORTAC via ILA R-086 to TUDOR INT. Thence

. . . .From over TUDOR INT via I-SMF RWY 16R localizer course to SM LOM.
Expect ILS RWY 16R approach.

WRAPS FIVE ARRIVAL

ST-5490 (FAA)

SACRAMENTO INTL
SACRAMENTO, CALIFORNIANORCAL APP CON
124.8 263.15

SW-2, 14 JAN 2010 to 11 FEB 2010

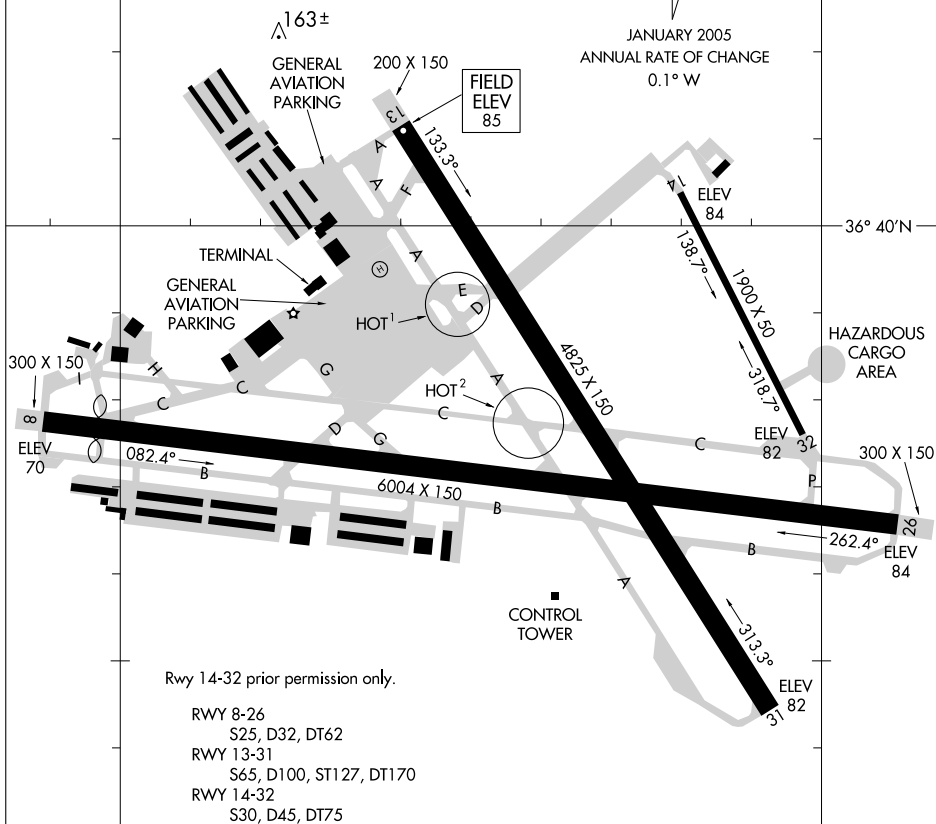
From over CZQ VORTAC via CZQ R-307 to TURLO INT, then via LIN R-124 to LIN VORTAC, then via LIN R-294 and SAC R-113 to SAC VORTAC, then via SAC R-312 to ELKOE INT, then via heading 340° for radar vector to final approach course.

LOST COMMUNICATIONS: After passing ELKOE INT proceed direct SM LOM.

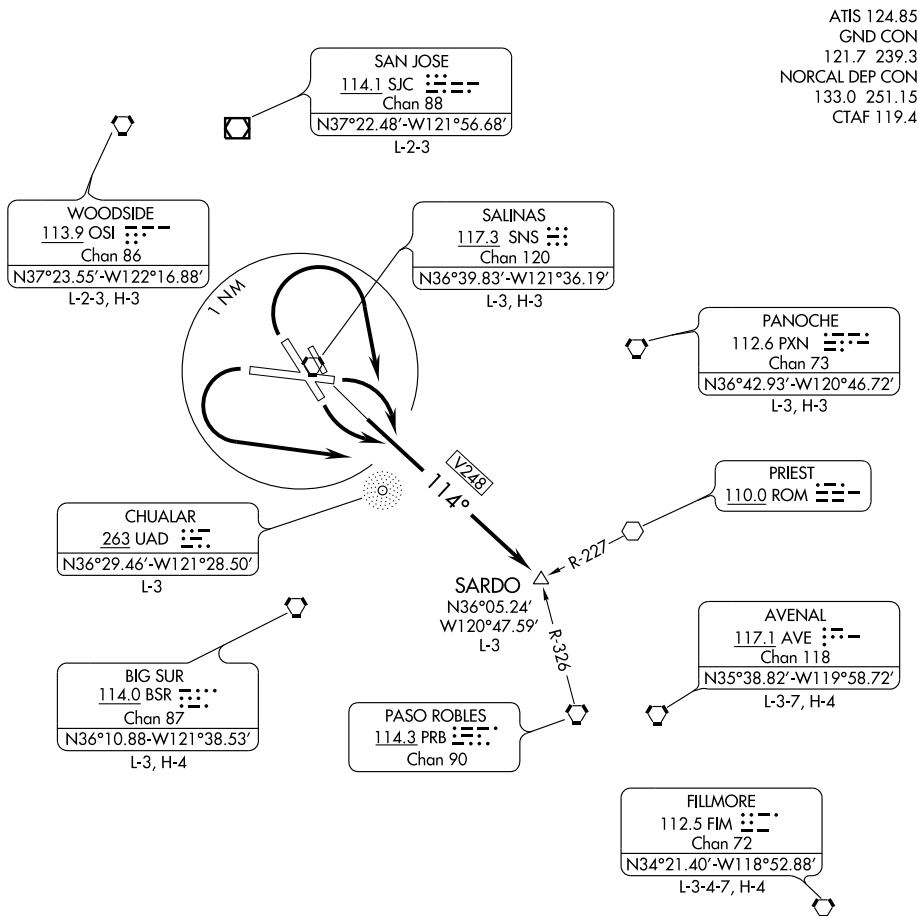
AIRPORT DIAGRAM

AL-363 (FAA)

 SALINAS MUNI (SNS)
 SALINAS, CALIFORNIA

 ATIS
 124.85
 SALINAS TOWER★
 119.4 239.3
 GND CON
 121.7


CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



DEPARTURE ROUTE DESCRIPTION

All aircraft climb outbound on the SNS R-114 (V248) to SARDO INT, then proceed on assigned route. Expect clearance to filed altitude five minutes after departure.

TAKE-OFF RUNWAYS 8 and 31: Turn right within 1 mile to intercept and climb via SNS R-114.

TAKE-OFF RUNWAYS 13 and 26: Turn left within 1 mile to intercept and climb via SNS R-114.

▼

▲

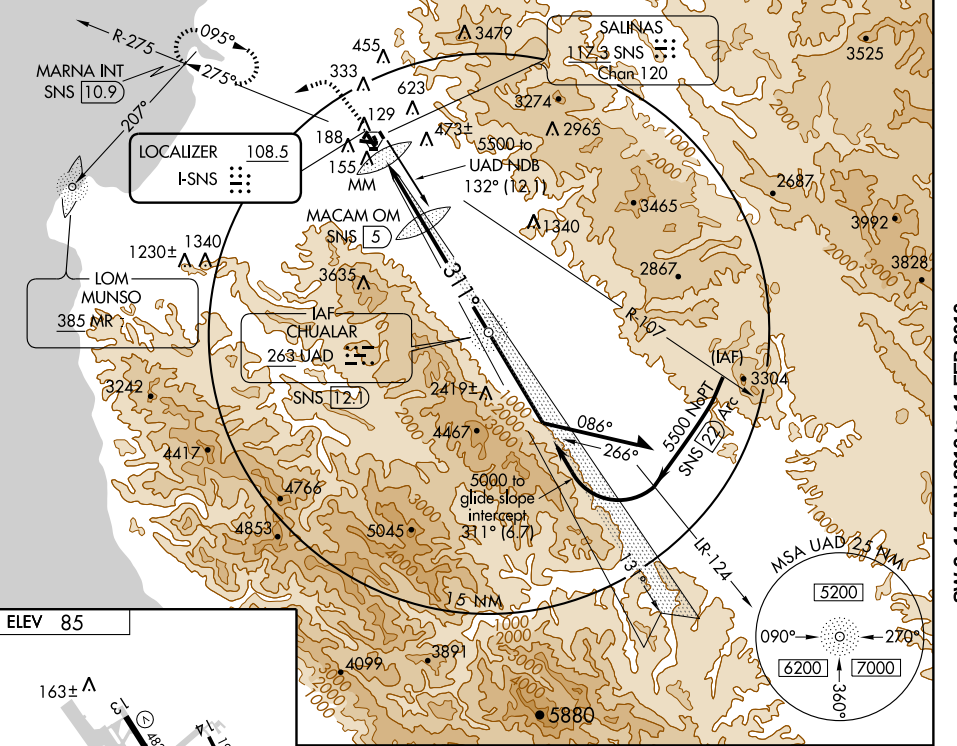
Circling requires descent on glide slope to CMDA.

MALSR

MISSED APPROACH: Climb to 800 then climbing left turn to 3000 via SNS R-275 to MARN INT/10.9 DME and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER★ 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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ADF or DME REQUIRED



ELEV 85

FAF to MAP 4.6 NM

Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

800

3000

SNS R-275

MARN INT

MACAM OM SNS 5

SNS 0.4

MM

1618

3987

NDB SNS 12.1

131°

311°

5500

5000

GS 3.00°

TCH 59

0.5

4.1 NM

7.1 NM

Remain within 10 NM

CATEGORY	A	B	C	D
S-ILS 31	282/24 200 (200-½)			
CIRCLING	560-1 475 (500-1)	580-1 495 (500-1)	580-1½ 495 (500-1½)	780-2¼ 695 (700-2¼)

▼ For inoperative MALSR increase S-LOC 31 Cat D visibility to RVR 5000. ▲ Simultaneous reception of I-SNS and SNS DME required.	MALSR 	MISSED APPROACH: Climb to 800 then climbing left turn to 3000 via SNS R-275 to MARNIA INT/10.9 DME and hold.
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800 ↑	3000 ↻ SNS R-275	MARNA INT							
CATEGORY		A		B		C		D	
S-LOC 31		420/24 341 (400-½)						420/40 341 (400-¾)	
CIRCLING		560-1 476 (500-1)		580-1 496 (500-1)		580-1½ 496 (500-1½)		780-2 ¼ 696 (700-2¼)	

APP CRS	Rwy Idg	4825
132°	TDZE	85
	Apt Elev	85

RNAV (GPS) RWY 13

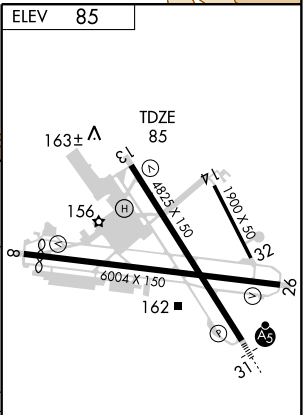
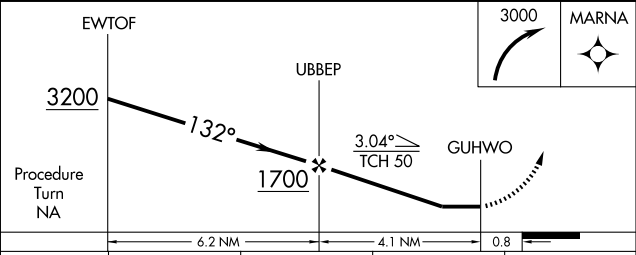
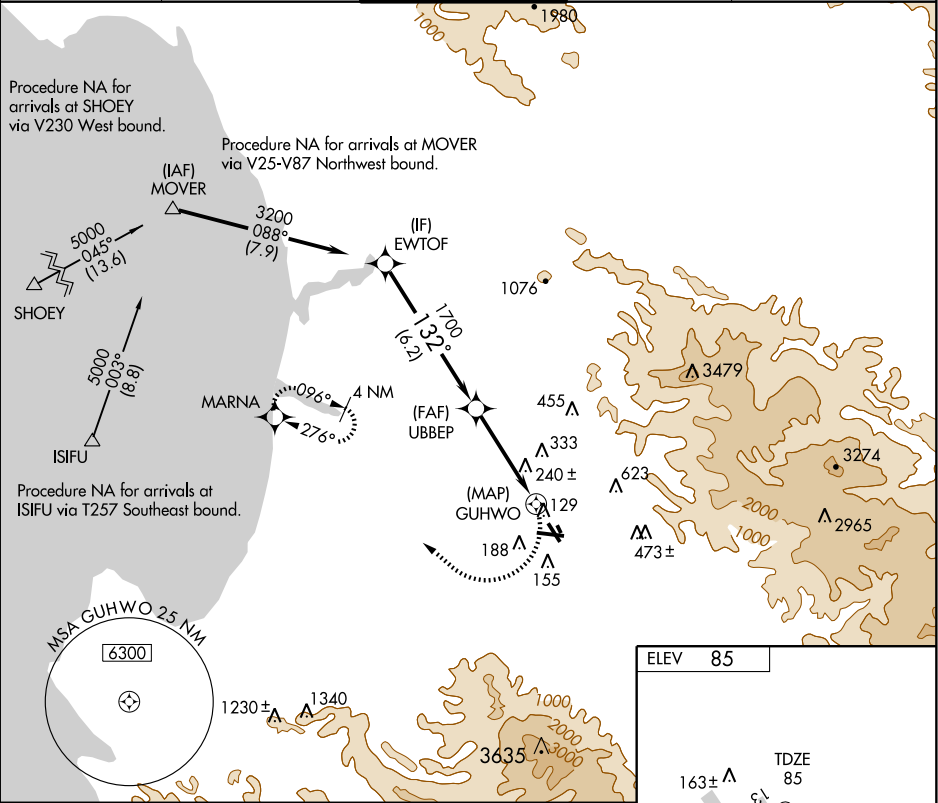
SALINAS MUNI (SNS)

▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

▲ When local altimeter setting not received, use Monterey Peninsula altimeter setting and increase all MDA 60 feet and increase LNAV Cat C and D visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 3000 direct MARNA and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER* 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	540-1	455 (500-1)	540-1¼ 455 (500-1¼)	540-1½ 455 (500-1½)
CIRCLING	540-1	455 (500-1)	540-1½ 455 (500-1½)	760-2¼ 675 (700-2¼)

HIRL Rwy 13-31
MIRL Rwy 8-26
REIL Rwy 13

▼

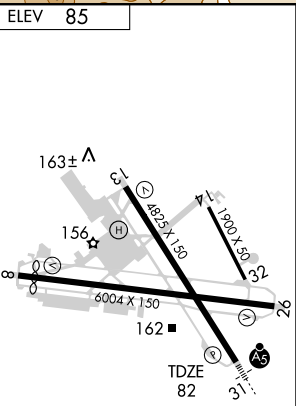
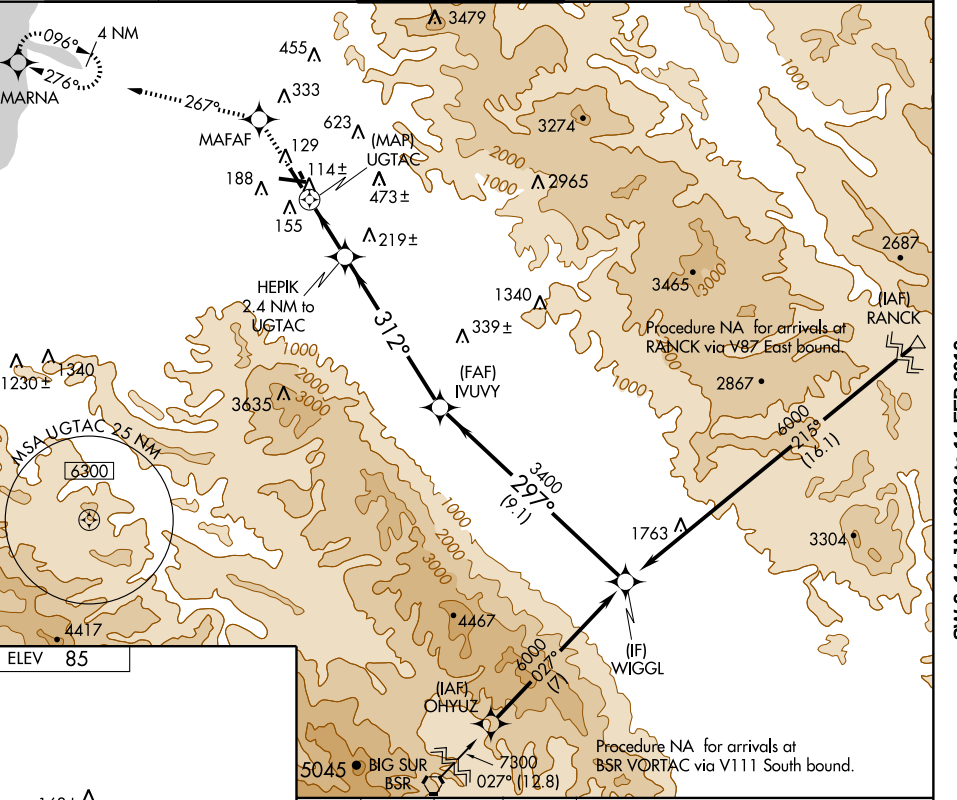
▲

For inoperative MALSR increase LNAV Cat D visibility to RVR 6000.
DME/DME RNP-0.3 NA. When local altimeter not received, use Monterey Peninsula altimeter setting and increase all MDA 60 feet and increase LNAV Cat C visibility to RVR 4000.

MALSR

MISSED APPROACH: Climb to 3000 direct MAFAF and left turn via track 267° to MARN A and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER★ 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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HIRL Rwy 13-31				
MIRL Rwy 8-26				
REIL Rwy 13				
CATEGORY	A	B	C	D
LNAV MDA	440/24 358 (400-½)			440/50 358 (400-1)
CIRCLING	500-1 415 (500-1)	540-1 455 (500-1)	540-1½ 455 (500-1½)	760-2¼ 675 (700-2¼)

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 69513 W31A	APP CRS 312°	Rwy Idg TDZE Apt Elev	4825 82 85
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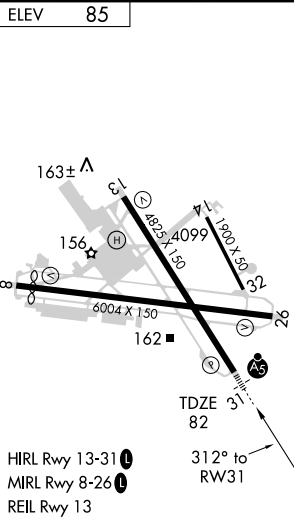
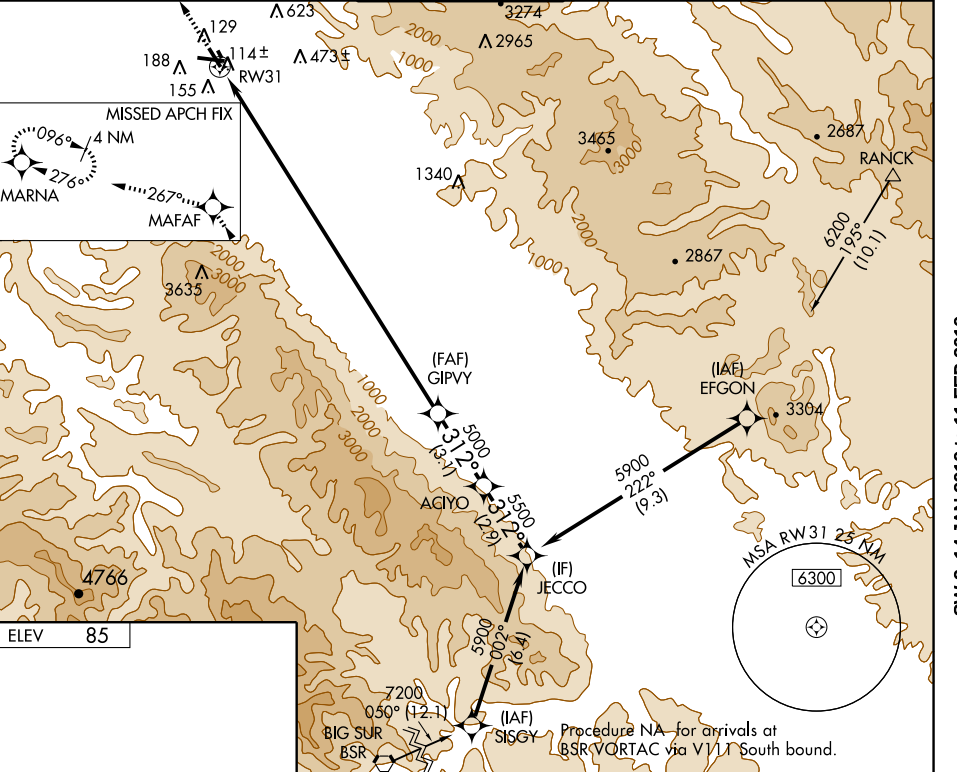
Baro-VNAV NA when using Monterey Peninsula altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 50°C (122°F).

DME/DME RNP-0.3 NA. Circling requires descent on glidepath to MDA. When local altimeter not received, use Monterey Peninsula altimeter setting and increase all DA 53 feet and all MDA 60 feet and LNAV/VNAV all Cats visibility to RVR 5000 and increase circling Cats A and B visibility ¼ mile.

MALSR
A5

MISSED APPROACH:
Climb to 3000 direct MAFAP and left turn via track 267° to MARNA and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER ★ 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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	3000	MAFAP	trk 267°	MARNA					Procedure Turn NA
				GIPVY	5000	ACIYO	JECCO	5900	GS 3.00° TCH 50
					5000	5500			VGSI and RNAV glidepath not coincident.
					14.7 NM	3.1 NM	2.9 NM		
CATEGORY	A	B	C	D					
LPV DA		282/24	200 (200-½)						
LNAV/VNAV DA		478/40	396 (400-¾)						
CIRCLING	500-1¼ 415 (500-1¼)	540-1¼ 455 (500-1¼)	540-1½ 455 (500-1½)	760-2¼ 675 (700-2¼)					

SALINAS TWO DEPARTURE

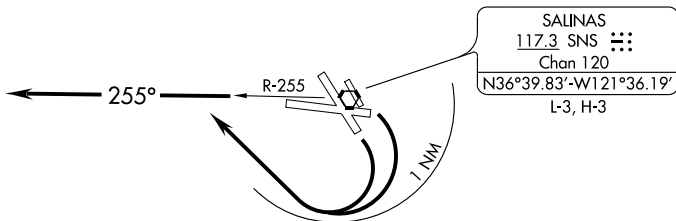
SL-363 (FAA)

SALINAS MUNI (SNS)
SALINAS, CALIFORNIA

ATIS 124.85
GND CON
121.7 239.3
NORCAL DEP CON
133.0 251.15
CTAF 119.4

WOODSIDE
113.9 OSI
Chan 86
N37°23.55'-W122°16.88'
L-2-3, H-3

SAN JOSE
114.1 SJC
Chan 88
N37°22.48'-W121°56.68'
L-2-3



BIG SUR
114.0 BSR
Chan 87
N36°10.88'-W121°38.53'
L-3, H-4

AVENAL
117.1 AVE
Chan 118
N35°38.82'-W119°58.72'
L-3-7, H-4

FILLMORE
112.5 FIM
Chan 72
N34°21.40'-W118°52.88'
L-3-4-7, H-4

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

All aircraft expect vectors to assigned route. Maintain 6000'. Expect clearance to filed altitude five minutes after departure.

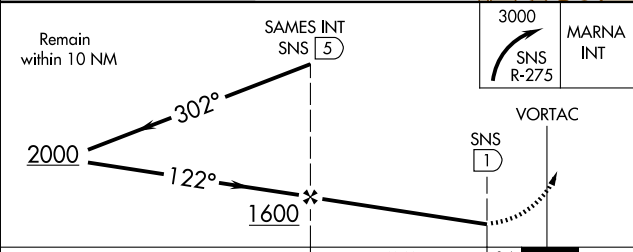
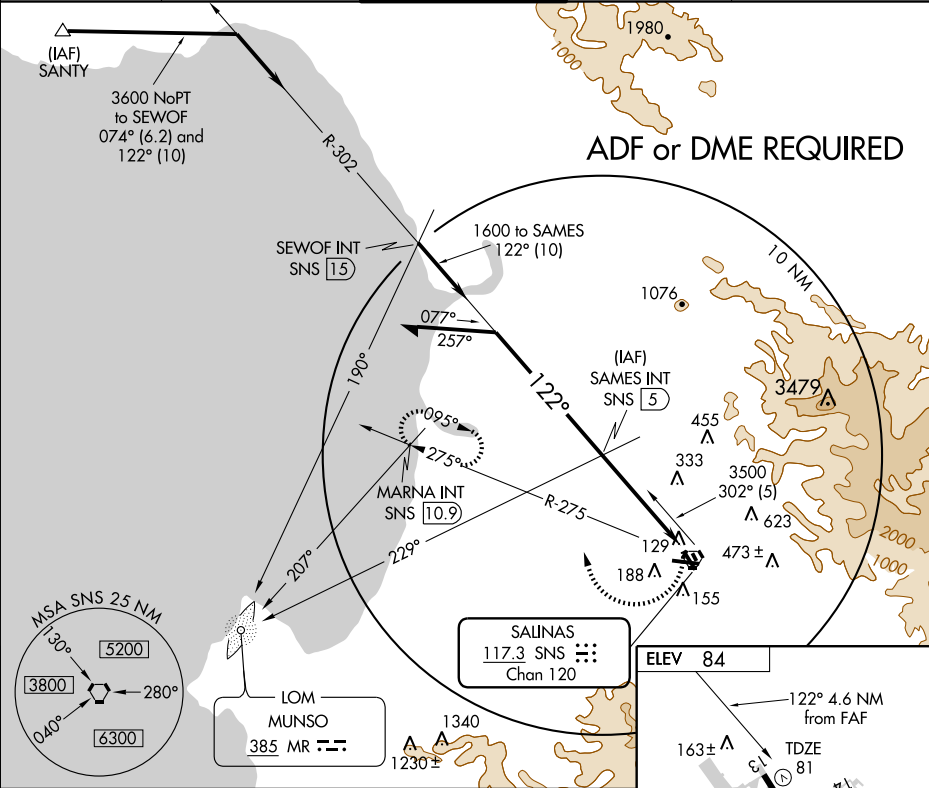
TAKE-OFF RUNWAYS 8 and 13: Turn right within one mile to intercept and climb via SNS R-255 for vector.

TAKE-OFF RUNWAYS 26 and 31: Climb on SNS R-255 for vector.

VORTAC SNS 117.3 Chan 120	APP CRS 122°	Rwy Idg TDZE Apt Elev 4825 81 84
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MISSED APPROACH: Climbing right turn to 3000 via SNS R-275 to MARNA INT and hold.

ATIS 124.85	NORCAL APP CON 133.0 251.15	SALINAS TOWER* 119.4 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-13	500-1	419 (500-1)	500-1¼ 419 (500-1¼)	1020-3 939 (1000-3)
CIRCLING	560-1 476 (500-1)	580-1 496 (500-1)	580-1½ 496 (500-1½)	1020-3 936 (1000-3)

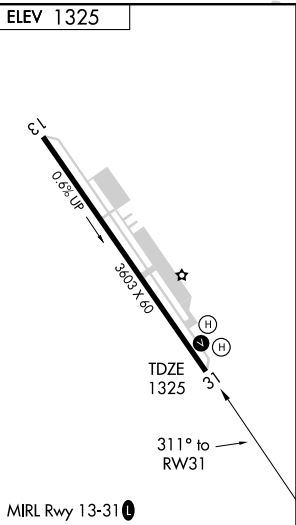
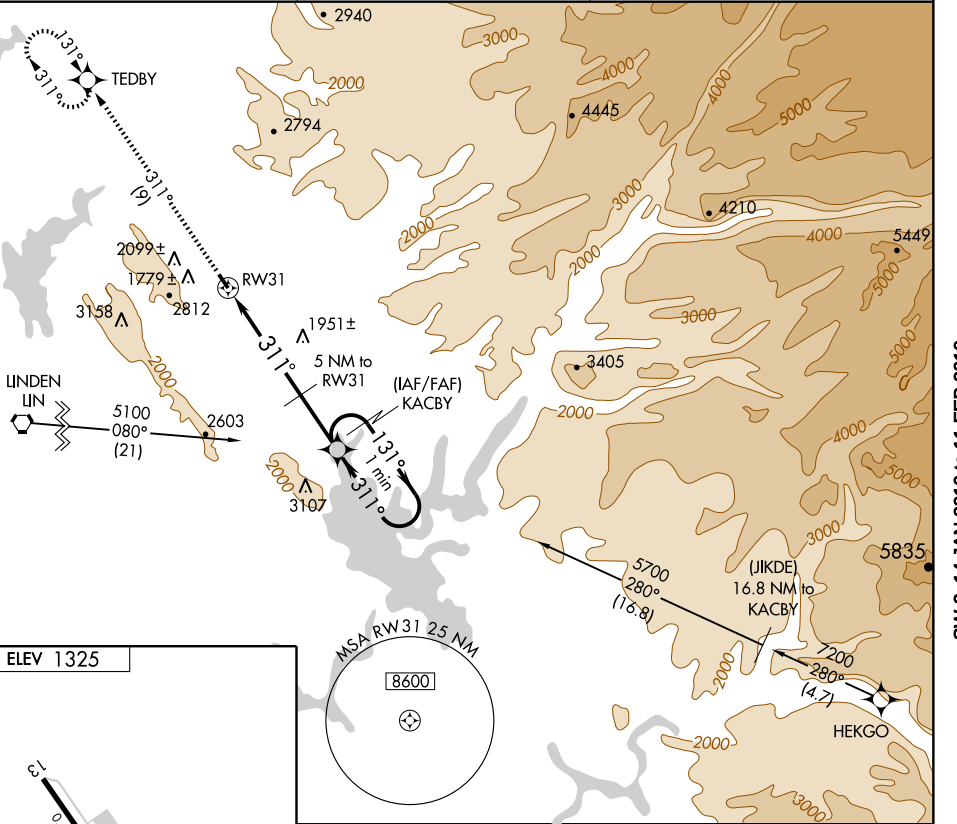
HIRL Rwy 13-31 L					
MIRL Rwy 8-26 L					
REIL Rwy 13					
FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

NA

Circling not authorized west of Rwy 13-31.

MISSED APPROACH: Climb to 4000 via 311° course to TEDBY WP and hold.

AWOS-3 118.525	OAKLAND CENTER 126.85 322.55	UNICOM 123.0 (CTAF) 1
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4000
↑
311°

TEDBY

5 NM to RW31

RW31

311°

3300

4100

4400

131°

311°

One Minute Holding Pattern

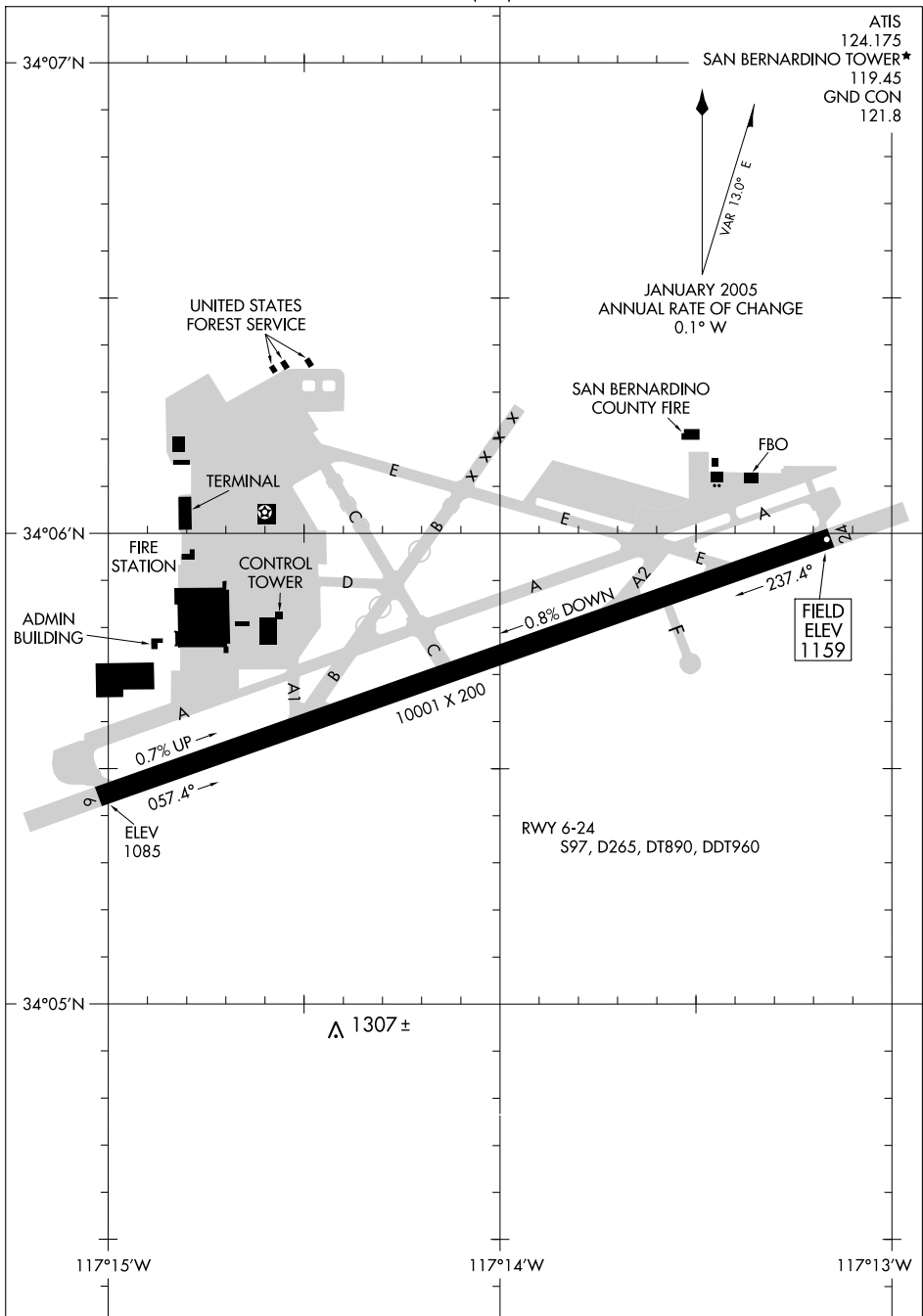
CATEGORY	A	B	C	D
S-31	2240-1¼	915 (1000-1¼)	NA	
CIRCLING	2240-1¼	915 (1000-1¼)	NA	

SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-547 (FAA)

SAN BERNARDINO INTL (SBD)
SAN BERNARDINO, CALIFORNIA



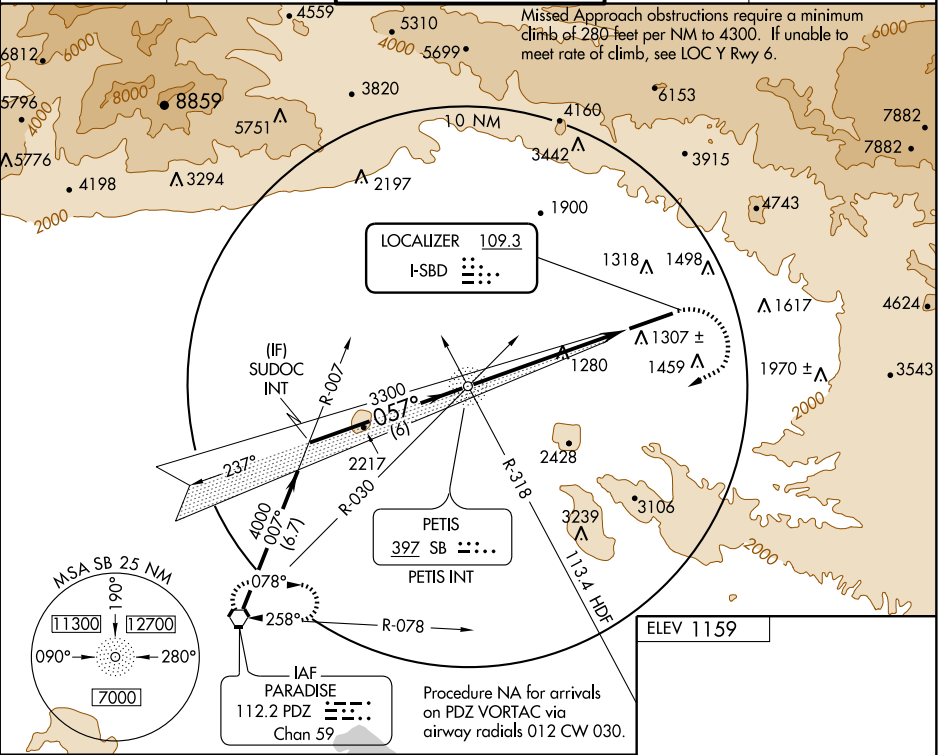
LOC I-SBD	APP CRS	Rwy Idg	10001
109.3	057°	TDZE	1091
		Apt Elev	1159

ILS or LOC Z RWY 6
SAN BERNARDINO INTL (SBD)

⚠ When local altimeter setting not received, use Ontario Intl altimeter setting and increase all DA to 1662 feet and all visibilities ¼ mile. Increase all MDA 80 feet and S-LOC Cat C/D visibilities ½ mile and Circling Cat C ¼ mile and Cat D ½ mile. Circling NA north of Rwy 6-24. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2700, then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.

ATIS 124.175	SOCAL APP CON 127.25 318.2	SAN BERNARDINO TOWER ★ 119.45 (CTAF) 0	GND CON 121.8	UNICOM 122.975
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Procedure Turn NA	SUDOC INT	PETIS NDB/INT	2700	6000	PDZ 112.2
GS 3.00° TCH 51	4000	3118	057°	3300	
	6 NM	6.1 NM			
CATEGORY	A	B	C	D	
S-ILS 6		1589-1¼	498 (500-1¼)		
S-LOC 6	1640-1¼	549 (600-1¼)	1640-1½ 549 (600-1¼)	1640-1¾ 549 (600-1¾)	
CIRCLING	1640-1¼	481 (500-1¼)	1660-1½ 501 (600-1½)	1820-2 661 (700-2)	

ELEV 1159

Procedure NA for arrivals on PDZ VORTAC via airway radials 012 CW 030.

HIRL Rwy 6-24 0

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

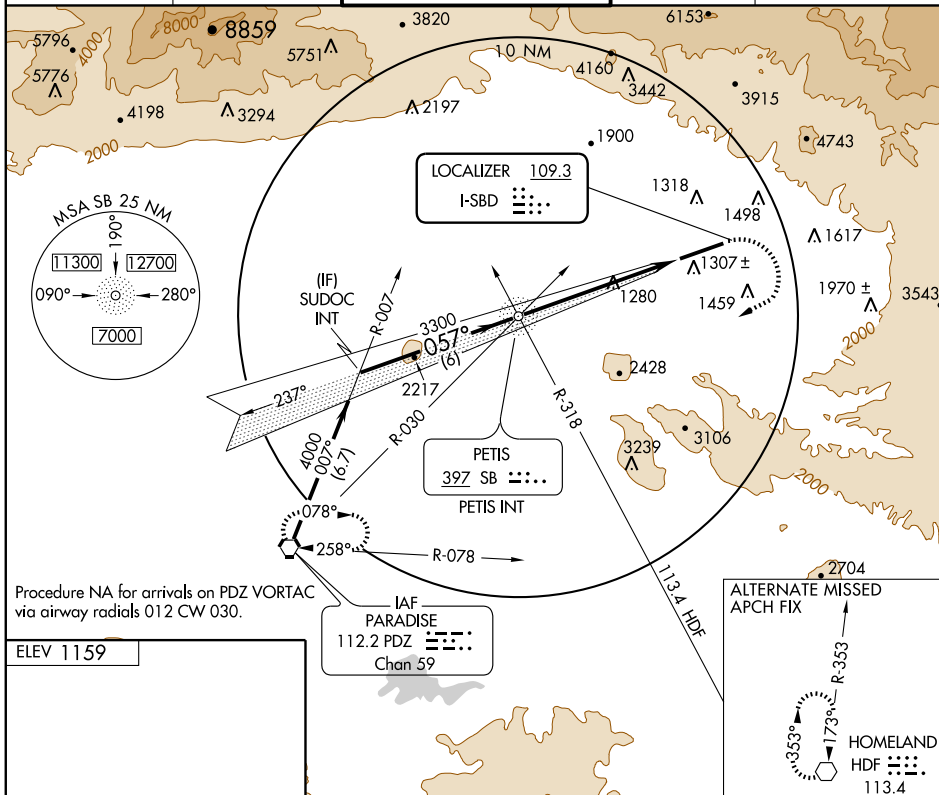
LOC I-SBD	APP CRS	Rwy Idg	10001
109.3	057°	TDZE	1091
		Apt Elev	1159

LOC Y RWY 6

SAN BERNARDINO INTL (SBD)

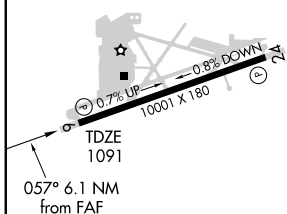
NA If local altimeter setting not received, use Ontario Intl altimeter setting and increase all MDAs 80 feet. Circling NA north of Rwy 6-24. Visibility reduction by helicopters NA.	MISSED APPROACH: Climb to 3100, then climbing right turn to 6000 direct PDZ VORTAC and hold, continue climb-in-hold to 6000.
--	--

ATIS 124.175	SOCAL APP CON 127.25 318.2	SAN BERNARDINO TOWER* 119.45 (CTAF) 0	GND CON 121.8	UNICOM 122.975
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Procedure NA for arrivals on PDZ VORTAC via airway radials 012 CW 030.

ELEV 1159



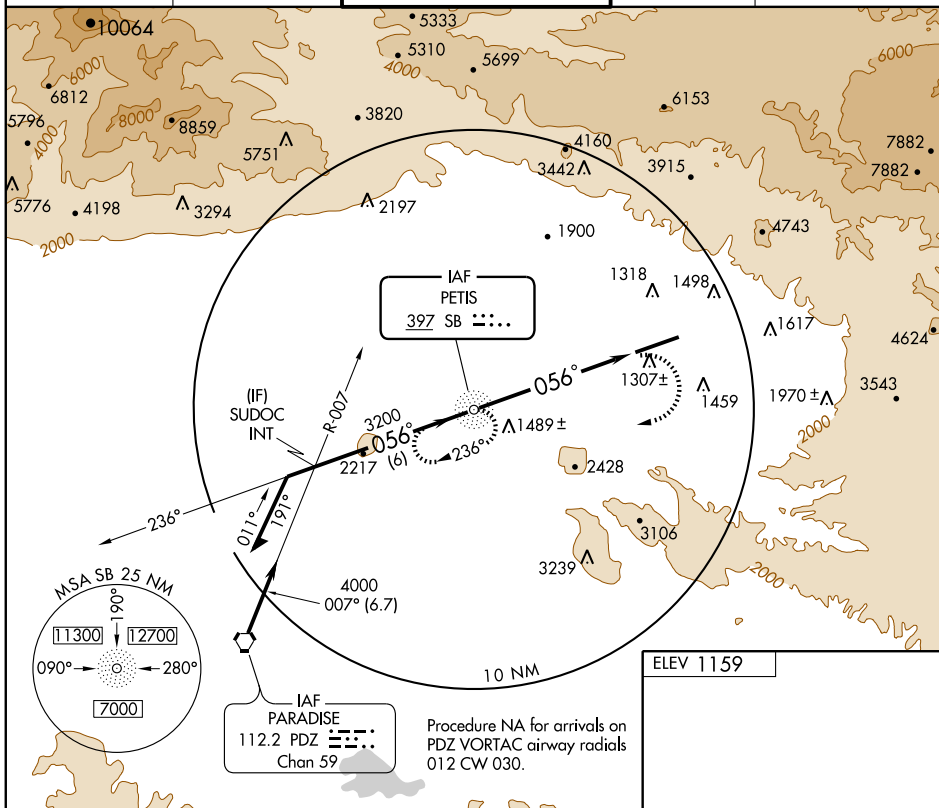
HIRL Rwy 6-24 0

	FAF to MAP 6.1 NM					
Knots	60	90	120	150	180	
Min:Sec	6:06	4:04	3:03	2:26	2:02	

	SUDOC INT	PETIS NDB/INT	3100	6000	PDZ 112.2
	4000	3300	↑	↪	⬡
	057°	3.33° TCH 52	VGSI and descent angles not coincident.		
Procedure Turn NA	6 NM	6.1 NM			
CATEGORY	A	B	C	D	
S-6	2480-1¼ 1389 (1400-1¼)	2480-1½ 1389 (1400-1½)	2480-3	1389 (1400-3)	
CIRCLING	2480-1¼ 1321 (1400-1¼)	2480-1½ 1321 (1400-1½)	2480-3	1321 (1400-3)	

NDB RWY 6
SAN BERNARDINO INTL (SBD)

MISSED APPROACH: Climbing right turn to 4400 direct SB NDB and hold, continue climb-in-hold to 4400.

UNICOM
122.975

4400	SB
	
	397

CATEGORY	A	B	C	D
S-6	2540-1¼ 1449 (1400-1¼)	2540-1½ 1449 (1400-1½)	2540-3	1449 (1400-3)
CIRCLING	2540-1¼ 1381 (1400-1¼)	2540-1½ 1381 (1400-1½)	2540-3	1381 (1400-3)

HIRL Rwy 6-24 **L**

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

APP CRS

057°

Rwy Idg

10001

TDZE

1091

Apt Elev

1159

 Circling NA north of Rwy 6 and 24. DME/DME RNP -0.3 NA.

 NA

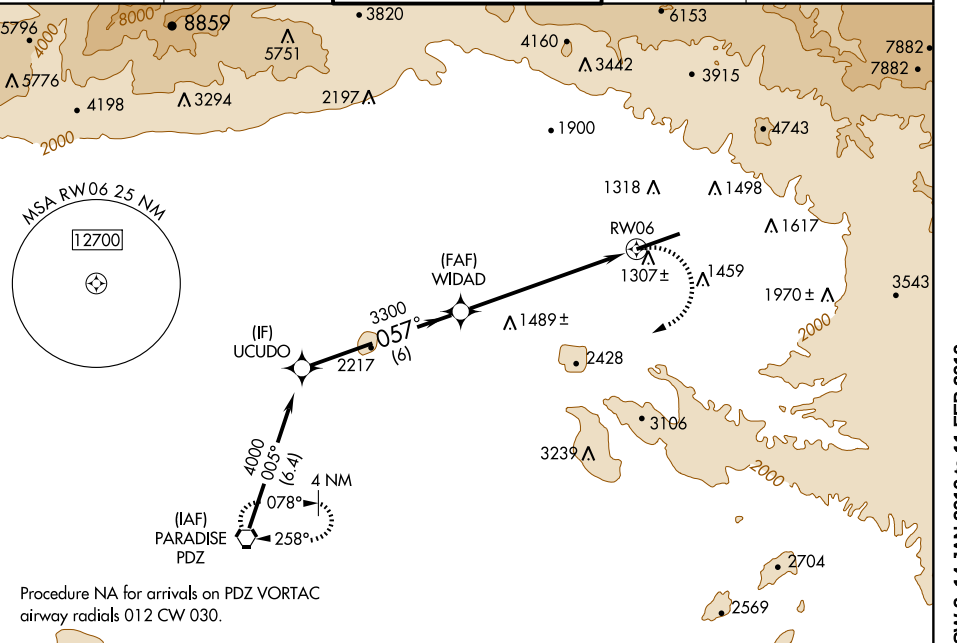
Visibility reduction by helicopters NA.

When local altimeter setting not received, procedure NA.

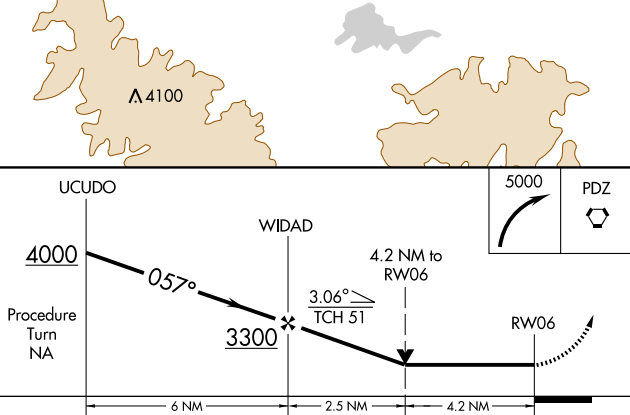
MISSED APPROACH: Climbing right turn to 5000

direct PDZ VORTAC and hold.

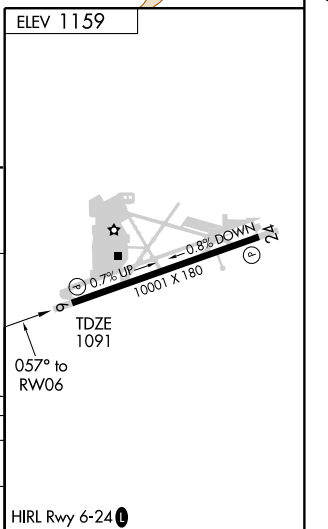
ATIS	SOCAL APP CON	SAN BERNARDINO TOWER *	GND CON	UNICOM
124.175	127.25 318.2	119.45 (CTAF) 	121.8	122.975



Procedure NA for arrivals on PDZ VORTAC
airway radials 012 CW 030.



CATEGORY	A	B	C	D
LNAV MDA	2480-1¼ 1389 (1400-1¼)	2480-1½ 1389 (1400-1½)	2480-3 1389 (1400-3)	
CIRCLING	2480-1¼ 1321 (1400-1¼)	2480-1½ 1321 (1400-1½)	2480-3 1321 (1400-3)	



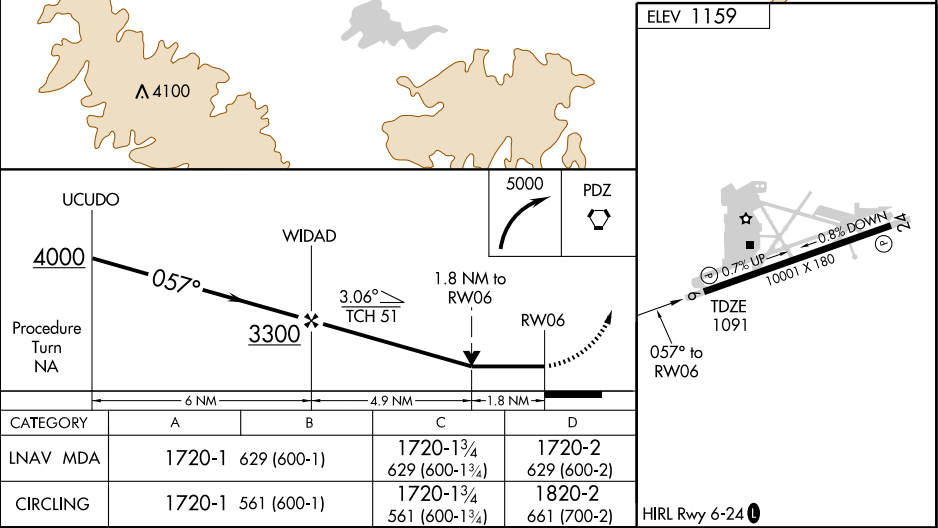
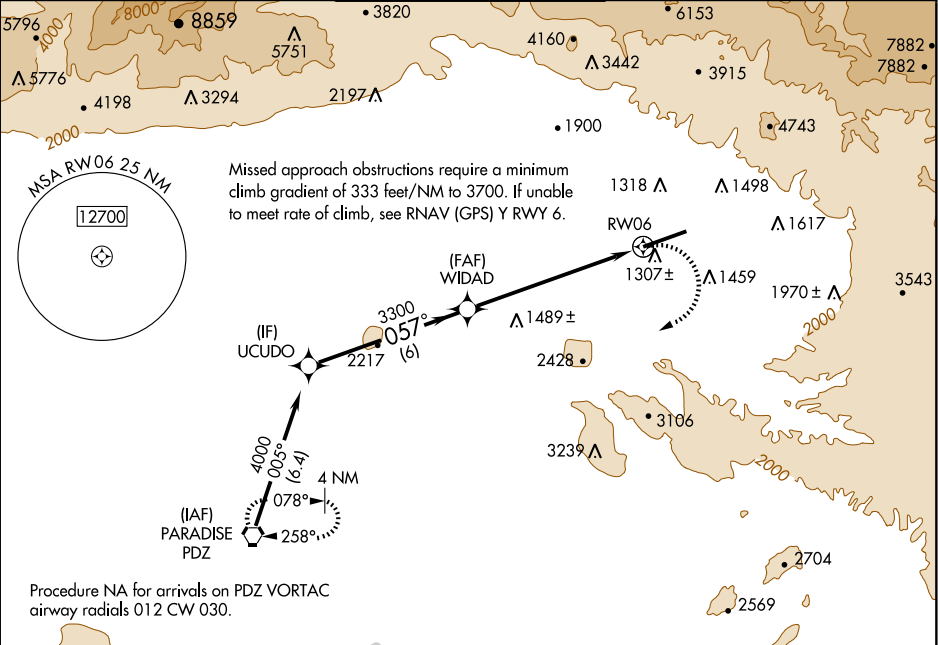
APP CRS	Rwy Idg	10001
057°	TDZE	1091
	Apt Elev	1159

RNAV (GPS) Z RWY 6

SAN BERNARDINO INTL (SBD)

⚠ Circling NA north of Rwy 6 and 24. DME/DME RNP -0.3 NA. ⚠ NA Visibility reduction by helicopters NA. When local altimeter setting not received, procedure NA.	MISSED APPROACH: Climbing right turn to 5000 direct PDZ VORTAC and hold.
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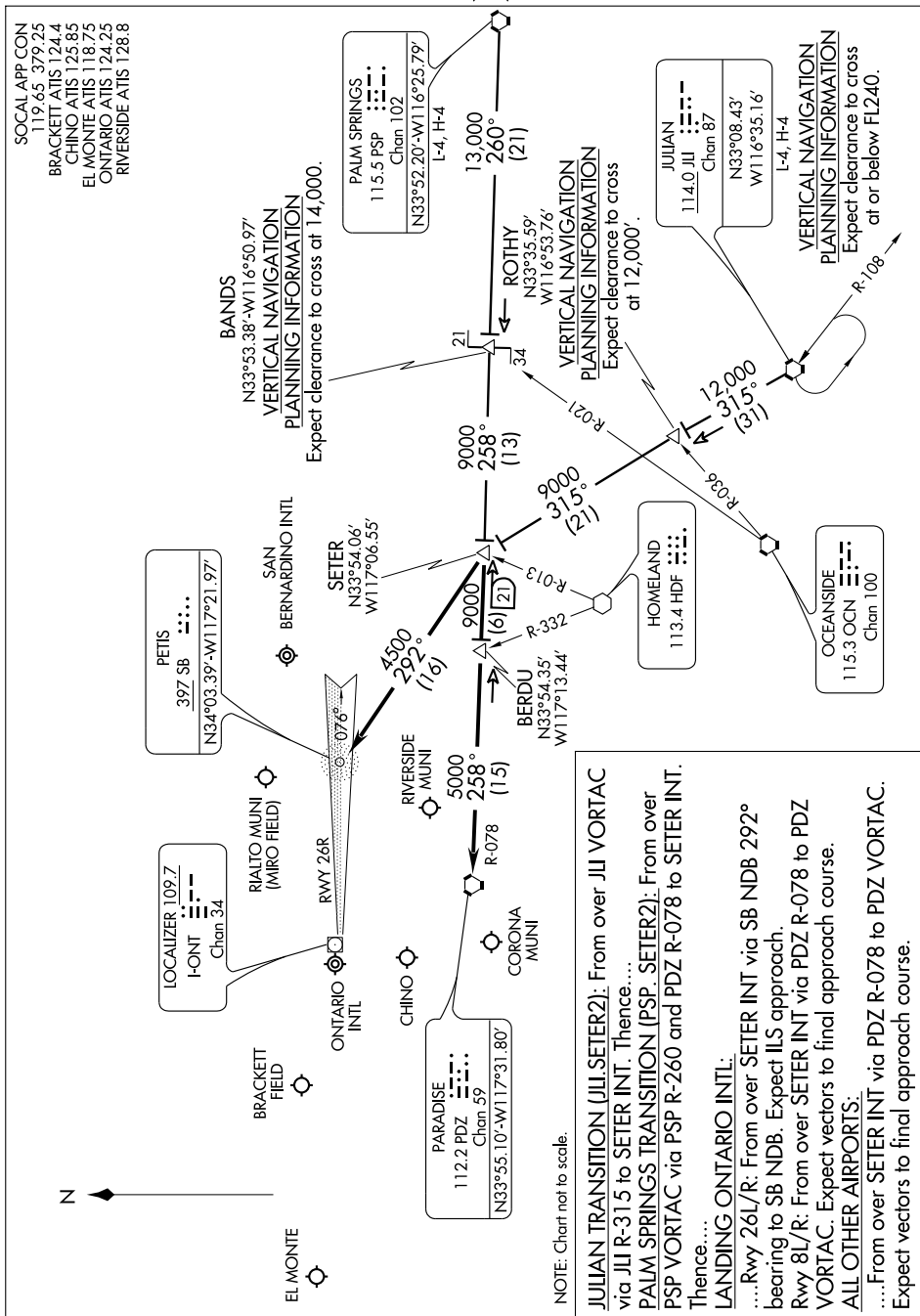
ATIS 124.175	SOCAL APP CON 127.25 318.2	SAN BERNARDINO TOWER * 119.45 (CTAF) ①	GND CON 121.8	UNICOM 122.975
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SETTER TWO ARRIVAL

ST-965 (FAA)

ONTARIO, CALIFORNIA



ZIGGY FOUR ARRIVAL

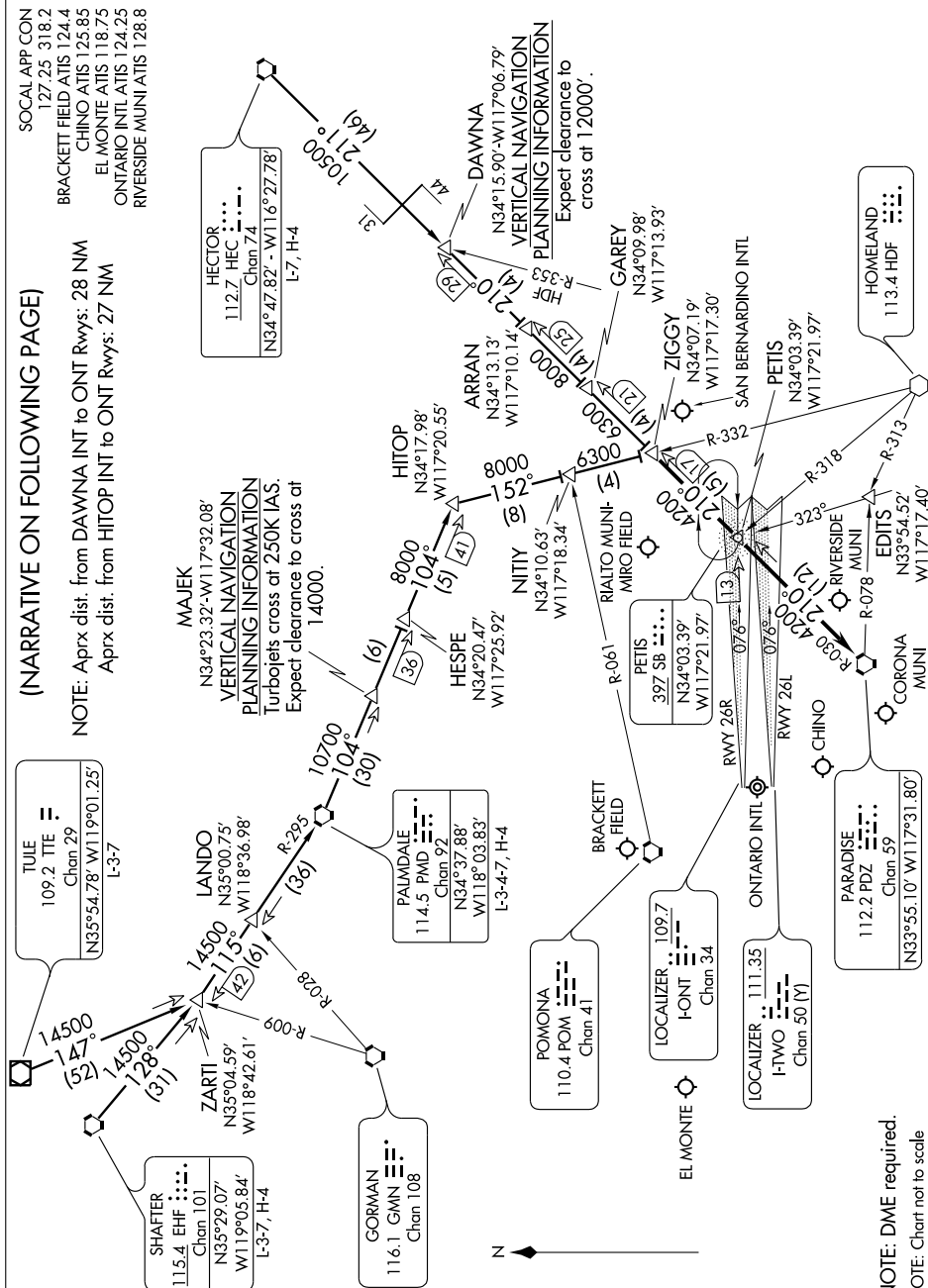
ST-965 (FAA)

ONTARIO, CALIFORNIA

SOCAL APP CON
127.25 318.2
BRACKETT FIELD ATIS 124.4
CHINO ATIS 125.85
EL MONTE ATIS 118.75
ONTARIO INTL ATIS 124.25
RIVERSIDE MUNI ATIS 128.8

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Aprx dist. from DAWNA INT to ONT Rwy: 28 NM
Aprx dist. from HITOP INT to ONT Rwy: 27 NM



SW-3 14 JAN 2010 to 11 FEB 2010

NOTE: DME required.

ARRIVAL ROUTE DESCRIPTION

HECTOR TRANSITION (HEC.ZIGGY4): From over HEC VORTAC via HEC R-211 and PDZ R-030 to ZIGGY INT. Thence

PALMDALE TRANSITION (PMD.ZIGGY4): From over PMD VORTAC via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

SHAFTER TRANSITION (EHF.ZIGGY4): From over EHF VORTAC via EHF R-128 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

TULE TRANSITION (TTE.ZIGGY4): From over TTE VOR/DME via TTE R-147 and PMD R-295 to PMD VORTAC, then via PMD R-104 to HITOP INT, then via HDF R-332 to ZIGGY INT. Thence

LANDING ONTARIO INTL:

. . . . RWY 8L/R: From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

. . . . RWY 26 L/R: From over ZIGGY INT via direct PETIS NDB or PDZ R-030 to PETIS INT; expect radar vectors for ILS approach.

ALL OTHER AIRPORTS:

. . . . From over ZIGGY INT via PDZ R-030 to PDZ VORTAC; expect radar vectors to final approach course.

LOST COMMUNICATIONS: For Rialto, California, NDB-A approach, proceed from PDZ VORTAC via PDZ R-078 to EDITS INT, maintain 4200'.

AIRPORT DIAGRAM

AL-9219 (FAA)

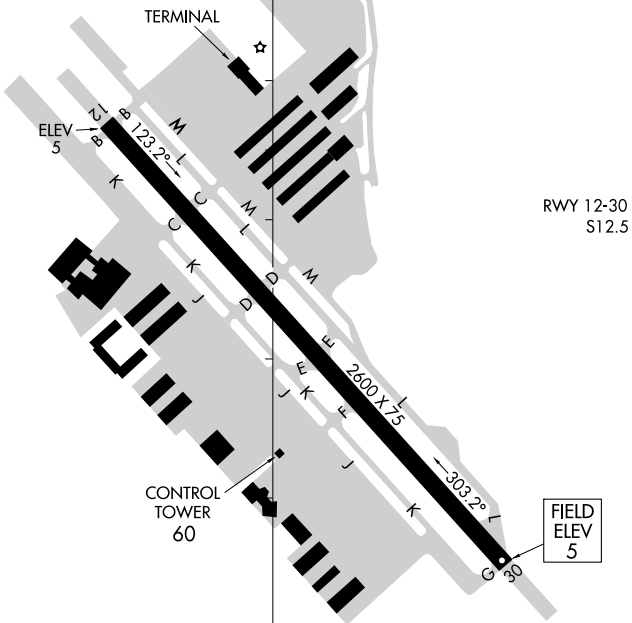
SAN CARLOS (SQL)
SAN CARLOS, CALIFORNIA

ATIS
125.9
SAN CARLOS TOWER ★
119.0 (CTAF) 326.2
GND CON
121.6


 JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.1°W

37°31'N

37°30.5'N



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

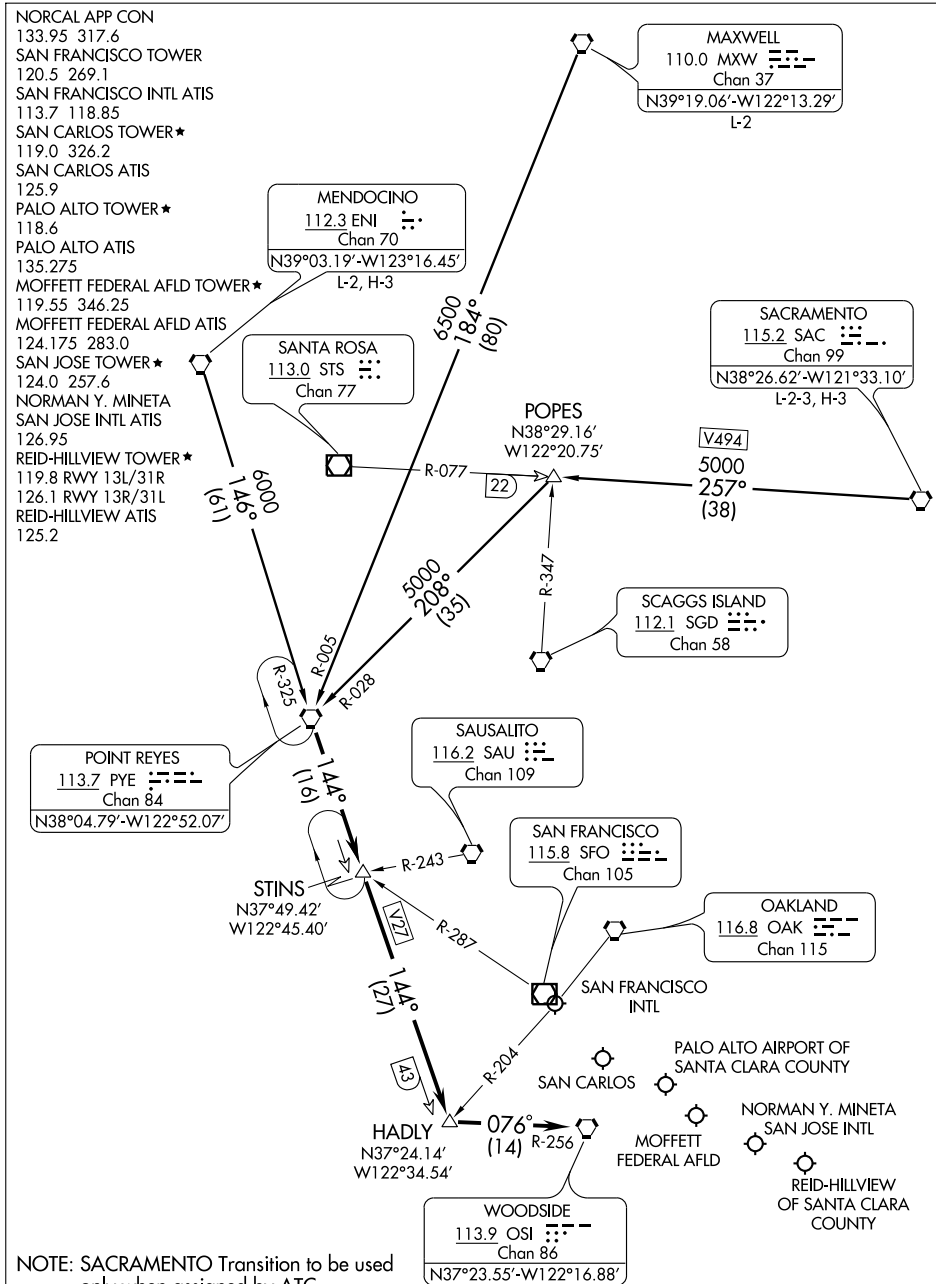
122°15'W

122°14.5'W

POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

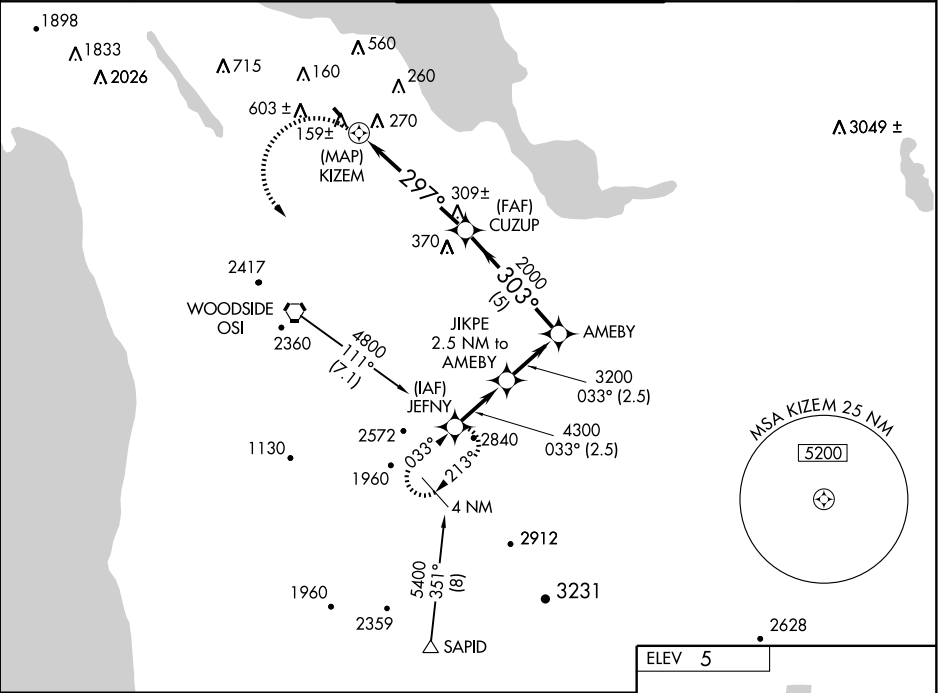
....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

APP CRS	Rwy Idg	2600
297°	TDZE	5
	Apt Elev	5

RNAV (GPS) RWY 30
SAN CARLOS (SQL)

 NA	Circling NA west of runway 12-30. When control tower closed, use San Francisco Intl altimeter setting.	MISSED APPROACH: Climbing left turn to 4800 direct JEFNY WP and hold.
--	--	--

ATIS 125.9	NORCAL APP CON 133.95 317.6	SAN CARLOS TOWER * 119.0 (CTAF) 0 326.2	GND CON 121.6	UNICOM 122.95
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4800

JEFNY

VGSJ and descent angles not coincident

AMEBY

CUZUP

3.05°

TCH 40°

KIZEM

297°

2000

303°

3200

Procedure Turn NA

0.9

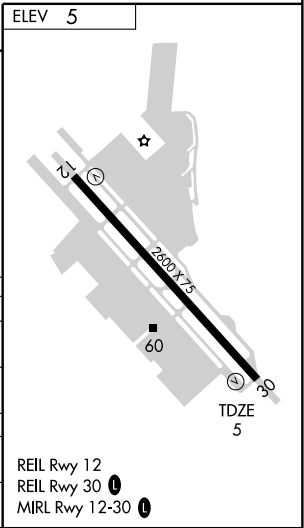
5.2 NM

5 NM

CATEGORY	A	B	C	D
LNAV MDA	640-1	635 (700-1)		NA
CIRCLING	640-1	635 (700-1)		NA

SAN FRANCISCO INTL ALTIMETER SETTING MINIMUMS

LNAV MDA	660-1	655 (700-1)		NA
CIRCLING	660-1	655 (700-1)		NA



ATIS ★ 268.6
 SAN CLEMENTE ISLAND TOWER ★
 126.75 278.8
 GND CON
 119.55 251.05



OCTOBER 2005
 ANNUAL RATE OF CHANGE
 0.1°W

33°02'N

FIELD
 ELEV
 184

23

E-28



A

(H)

9301 x 200
 (H)

ELEV
 175

FIRE
 STATION

CONTROL
 TOWER/
 OPERATIONS

PASSENGER
 TERMINAL

ELEV
 91

1.0% UP

054.3°

E-28

A

118°36'W

RWY 05-23
 PCN 68 R/C/W/T

33°01'N

118°35'W

SW-3, 14 JAN 2010 to 11 FEB 2010

TACAN NUC Chan 123	APCH CRS 233°	Rwy Idg TDZE Arpt Elev 184
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JAL-5126 [USN]

SAN CLEMENTE ISLAND NALF
(FREDERICK SHERMAN FLD) (KNUC)

▼ *Circling not authorized S of Rwy 5-23.

MISSED APPROACH: Climb to 1500 via NUC TACAN R-233 then climbing right turn to 4000 via NUC R-030 to HETIT. Then arc NE of the NUC TACAN via the 18 DME arc to PYRAS and hold.

CAUTION: Procedure in uncontrolled airspace.

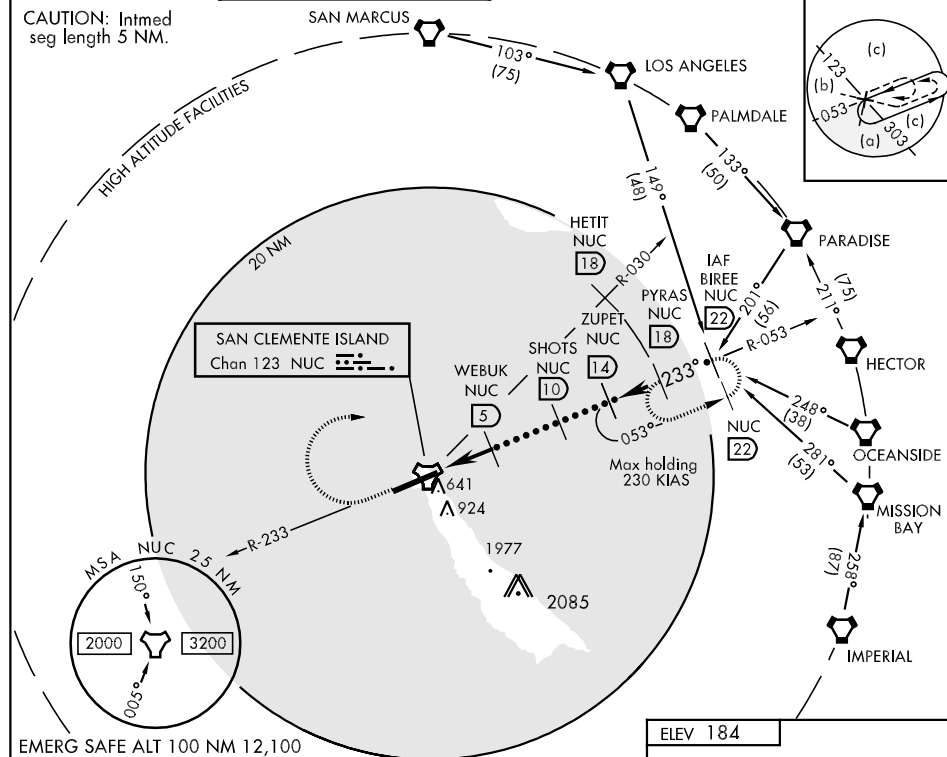
ATIS ★
268.6

SAN CLEMENTE ISLAND TOWER ★
126.75 278.8

GND CON
0 119.55 251.05

ASR/PAR

CAUTION: Intmed
seg length 5 NM.



SW-3, 14 JAN 2010 to 11 FEB 2010

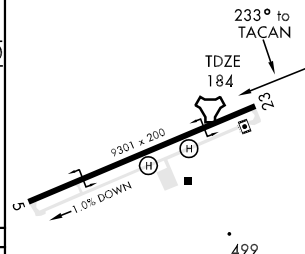
1500 ↑ NUC R-233	4000 ↑ NUC R-030	HETIT Arc 18	PYRAS R-053 18	BIREE R-053 22	ZUPET 14	SHOTS 10	WEBUK 5	FARNIA 1	TACAN
2.91° TCH 50 4 NM									
CATEGORY	C	D	E						
S-23	760-1½ 576 (600-1½)	760-1¾ 576 (600-1¾)	760-2 576 (600-2)						
CIRCLING *	760-1½ 576 (600-1½)	760-2	576 (600-2)						
S-PAR 23	434-1	250	(300-1)	GS 3.0°					

SAN CLEMENTE ISLAND, CALIFORNIA

33°01'N-118°35'W

SAN CLEMENTE ISLAND NALF (KNUC)
(FREDERICK SHERMAN FLD)

ELEV 184



HIRL Rwy 5-23 0

REIL Rwy 5-23 0

499

APCH CRS
233°

Rwy Idg
TDZE
Arpt Elev

9301
184
184

AL-5126 [USN]



* Circling not authorized S of Rwy 5 - 23.

DME/DME RNP-0.3 NA

Baro VNAV NA below -15°C (4°F) or above 41°C (106°F)

MISSED APPROACH: Climb to 1500, then climbing right turn to 3000 direct JUROR WP and hold.

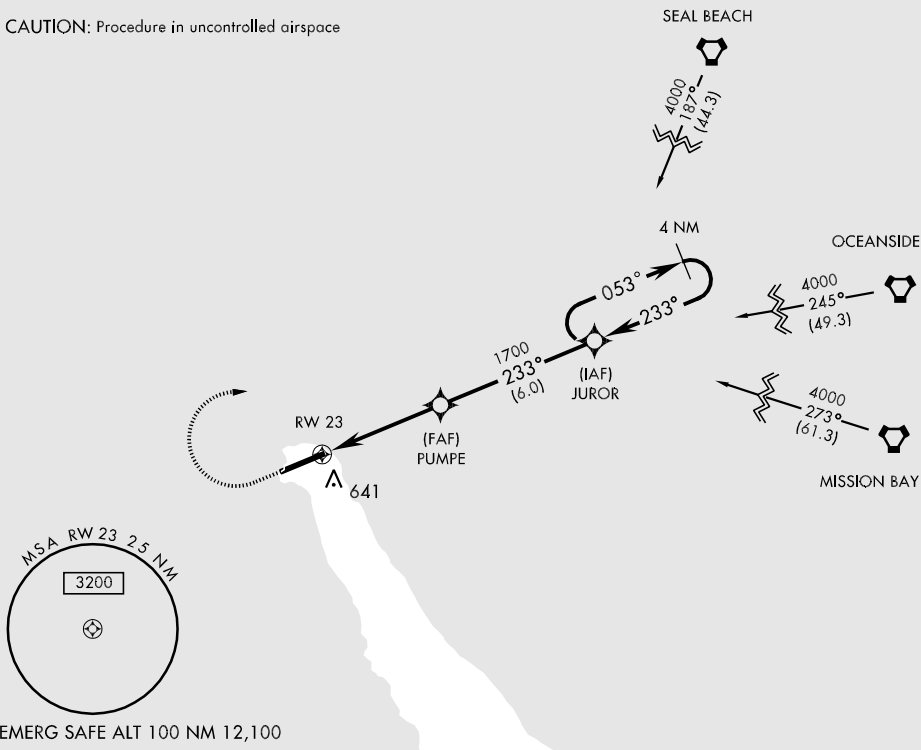
ATIS ★
268.6

SAN CLEMENTE ISLAND TOWER ★
126.75 278.8

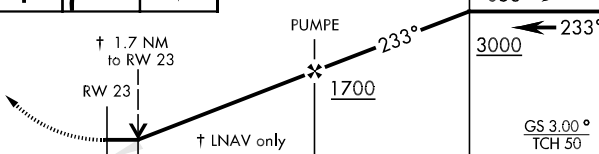
GND CON
0 119.55 251.05

ASR/PAR

CAUTION: Procedure in uncontrolled airspace

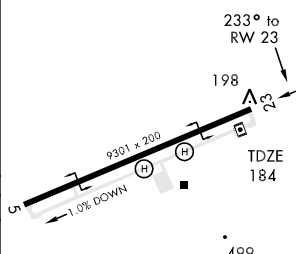


EMERG SAFE ALT 100 NM 12,100



	4.0 NM		0.0 NM		
CATEGORY	A	B	C	D	
RNAV/VNAV DA	740-2 556 (600-2)				
RNAV MDA	760-1 576 (600-1)	760-1½ 576 (600-1½)		760-1¾ 576 (600-1¾)	
CIRCLING *	760-2 576 (600-2)				
S-PAR 23	434-1 250 (300-1)	GS 3.0°			

ELEV 184



HIRL Rwy 5-23 0
REIL Rwy 5-23 0

TACAN NUC Chan 123	APCH CRS 233°	Rwy Idg TDZE Arprt Elev 9301 184 184
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AL-5126 [USN]

SAN CLEMENTE ISLAND NALF
(FREDERICK SHERMAN FLD) (KNUC)

* Circling not authorized S of Rwy 5-23.

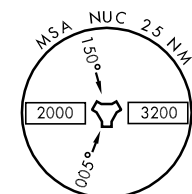
MISSED APPROACH: Climb to 1500 via NUC TACAN R-233 then climbing right turn to 4000 via NUC R-030 to HETIT. Then arc NE of NUC TACAN via the 18 DME arc to PYRAS and hold.

ATIS ★
268.6

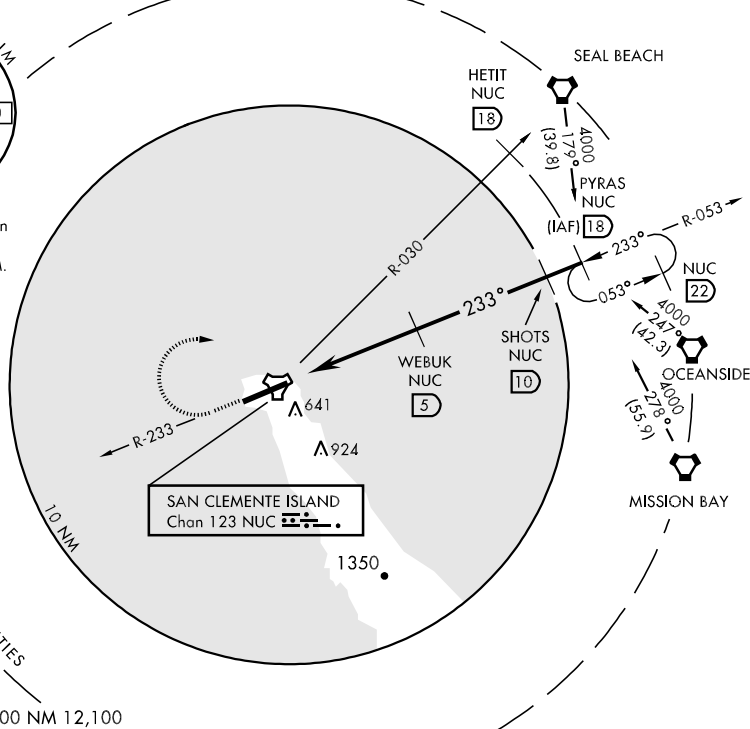
SAN CLEMENTE ISLAND TOWER ★
126.75 278.8

GND CON
119.55 251.05

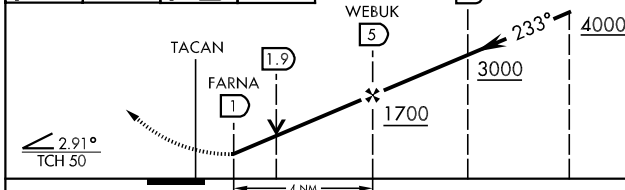
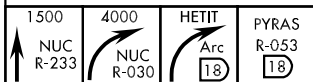
ASR/PAR



CAUTION: Procedure in uncontrolled airspace. Intimed seg length 5 NM.

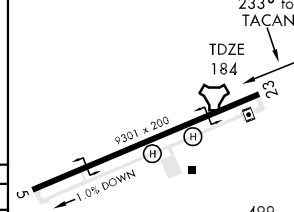


EMERG SAFE ALT 100 NM 12,100



CATEGORY	A	B	C	D
S-23	760-1 576 (600-1)	760-1½ 576 (600-1½)	760-1¾ 576 (600-1¾)	760-2 576 (600-2)
CIRCLING *	760-1 576 (600-1)	760-1½ 576 (600-1½)	760-1¾ 576 (600-1¾)	760-2 576 (600-2)
S-PAR 23	434-1 250 (300-1) GS 3.0°			

ELEV 184



HIRL Rwy 5-23
REIL Rwy 5-23

AIRPORT DIAGRAM

AL-5401 (FAA)

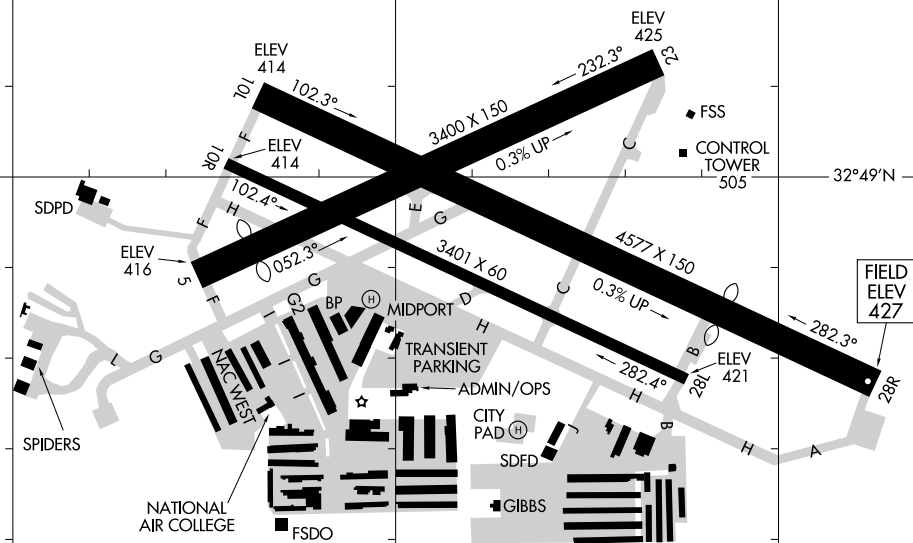
SAN DIEGO/MONTGOMERY FIELD (MYF)
SAN DIEGO, CALIFORNIA

ATIS
126.9
MONTGOMERY TOWER ★
119.2 269.4
GND CON
118.22
CLNC DEL
123.725

576
△

32°49.5'N

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W



RWYS 5-23, 10L-28R, and 10R-28L
S12

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-3, 14 JAN 2010 to 11 FEB 2010

117°09'W

117°08.5'W

117°08'W

LOC/DME I-MYF
111.7
Chan 54

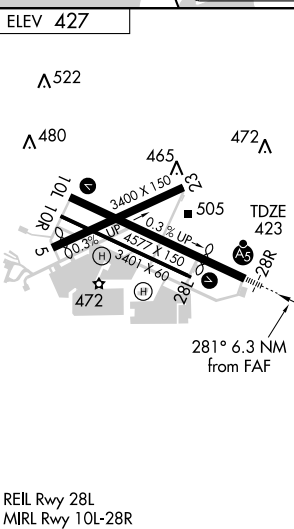
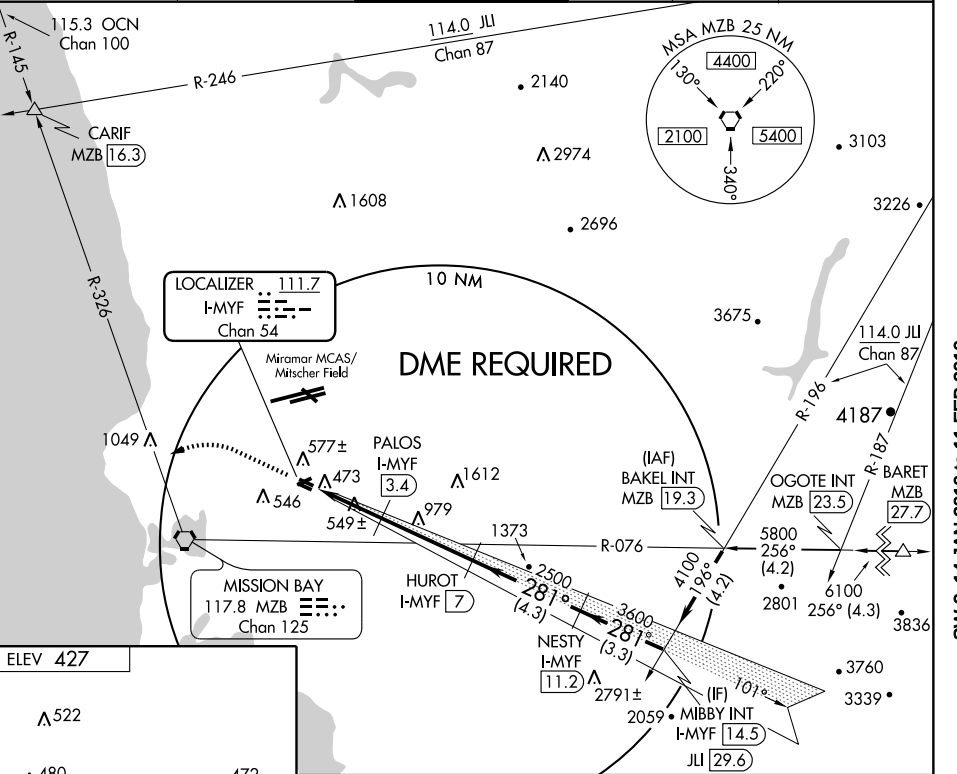
APP CRS
281°

Rwy Idg
3401
TDZE
423
Apt Elev
427

MALSR
AS

MISSED APPROACH: Climb to 1100 then climbing left turn to 3000 via heading 270° and MZB R-326 to CARIF INT.

ATIS 126.9	SOCAL APP CON 124.35 279.625	MONTGOMERY TOWER★ 119.2 (CTAF) 0 269.4	GND CON 118.22	CLNC DEL 123.725	SAN DIEGO RADIO 122.4
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1100	3000	MZB R-326 117.8	CARIF △	Procedure Turn NA	NESTY I-MYF 11.2	MIBBY INT I-MYF 14.5
↑	↶ 270°					
*LOC only	I-MYF 0.7	I-MYF 1.8	I-MYF 3.4	2500	281° 3600	4100
	1.1 NM	1.6 NM	3.6 NM	4.3 NM	3.3 NM	
CATEGORY	A	B	C	D		
S-ILS 28R	623-1/2	200 (200-1/2)			NA	
S-LOC 28R	800-1/2	377 (400-1/2)			NA	
CIRCLING	880-1	453 (500-1)			NA	

REIL Rwy 28L
MIRL Rwy 10L-28R

SW-3, 14 JAN 2010 to 11 FEB 2010

WAAS CH 45710 W28A	APP CRS 281°	Rwy Idg 3401 TDZE 423 Apt Elev 427
--	------------------------	---

RNAV (GPS) RWY 28R
SAN DIEGO/MONTGOMERY FIELD (MYF)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).
DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 3000 direct JOPDO and right turn via 327° track to CARIF.

ATIS
126.9

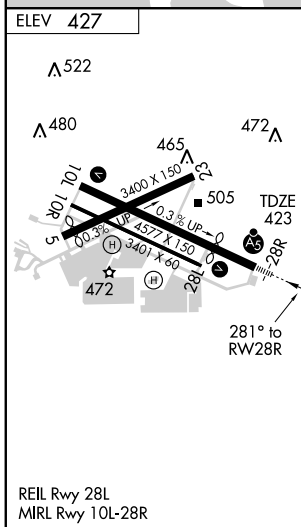
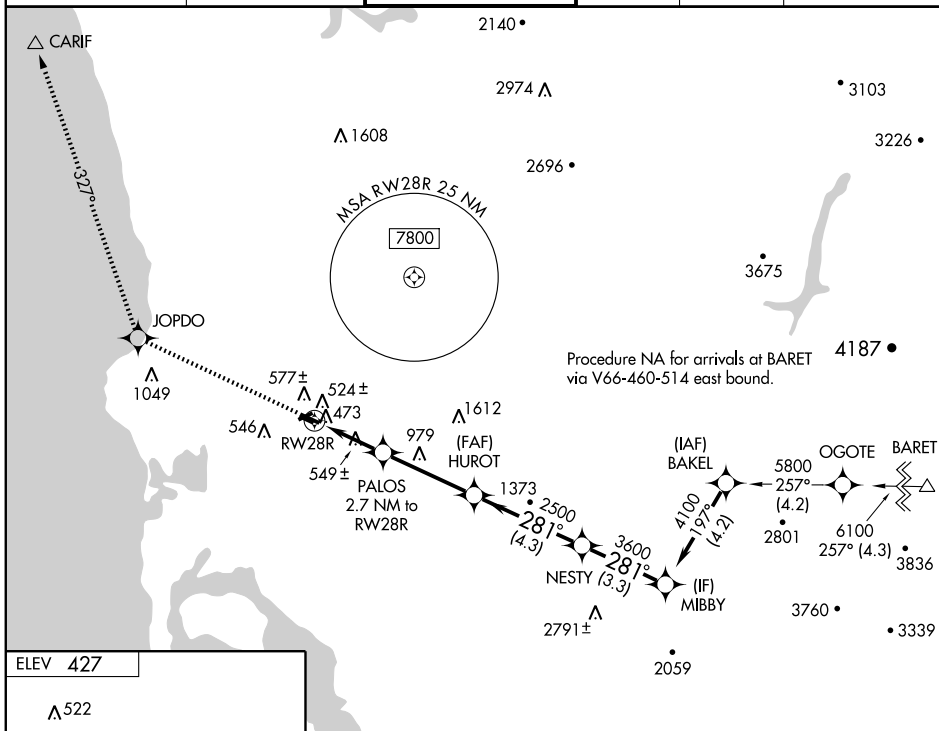
SOCAL APP CON
124.35 279.625

MONTGOMERY TOWER ★
119.2 (CTAF) **L** 269.4

GND CON
118.22

CLNC DEL
123,725

SAN DIEGO RADIO
122.4



3000 		JOPDO 		327° 		CARIF 		VGS1 and RNAV glidepath not coincident. Procedure Turn NA		NESTY HUROT		MIBBY	
* LNAV only		* 1.2 NM to RW28R		2.7 NM to RW28R		1320*		2500		281° 3600		4100	
												GS 3.00° TCH 41	
CATEGORY		A		B		C		D					
LPV	DA	623-½		200 (200-½)				NA					
LNAV/ VNAV	DA	750-¾		327 (400-¾)				NA					
LNAV	MDA	840-½		417 (500-½)				NA					
CIRCLING		880-1		453 (500-1)				NA					

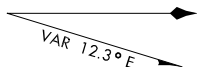
SW-3, 14 JAN 2010 to 11 FEB 2010

MIRAMAR SOUTH (JET) FREQUENCIES

ATIS ★
352.0
MIRAMAR SOUTH (JET) TOWER ★
135.2 298.925
GND CON
128.625 307.325
CLNC DEL
125.975 254.325
PTD
335.625

117°10'W

DECEMBER 2009
ANNUAL RATE OF CHANGE
0.1° W



117°09'W

RWY 6L - 24R
PCN 53 R/B/W/T
RWY 6R - 24L
PCN 76 R/B/W/T
RWY 10-28
PCN 72 R/B/W/T

NOTE: RWY 10 NOT AVAILABLE
RWY 28 RESTRICTED USE ONLY

117°08'W

STRATEGIC
PARKING AREA

HELICOPTER STRIP
(LHD)

MIRAMAR NORTH (HELO) FREQUENCIES

ATIS (HELO) ★
352.0
GND CON (HELO)
377.15
MIRAMAR NORTH
(HELO) TOWER ★
327.025

CALA PAD
30,000 lbs

FIELD
ELEV 477

32°52'N

DEARMING AREA
HDG 285°

HOVER PAD

ELEV 430

HOVER PAD

SEE INSET

ELEV 445

ELEV 450

ELEV 455

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

ELEV 475

HGR-6

HGR-5

HELO FUEL

COMPASS ROSE

HGR-4

BEACON

ELEV 536

CONTROL TOWER

ELEV 562

BASE OPS

FIRE STATION

VAL/PAX TERMINAL

HGR-3

HGR-2

HGR-1

HGR-0

ARMING AREA

HDG 230°

HGR-0

HGR-0

HGR-0

HGR-0

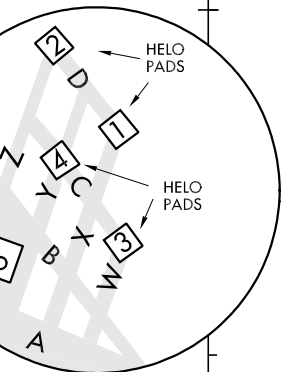
HGR-0

HGR-0

HGR-0

HGR-0

HGR-0



32°53'N

TACAN NKX Chan 33	APCH CRS 244°	Rwy ldg TDZE 24R 12,000 24L 8001 Arpt Elev 477
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JAL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)

- ▼ *When ALS inop, increase CAT C vis to 1¾ miles, CAT D to 2 miles, CAT E to 2½ miles.
 **Circling not authorized to Rwy 10-28. CAT E circling not authorized S of Rwy 6R-24L.

ALS-F-1



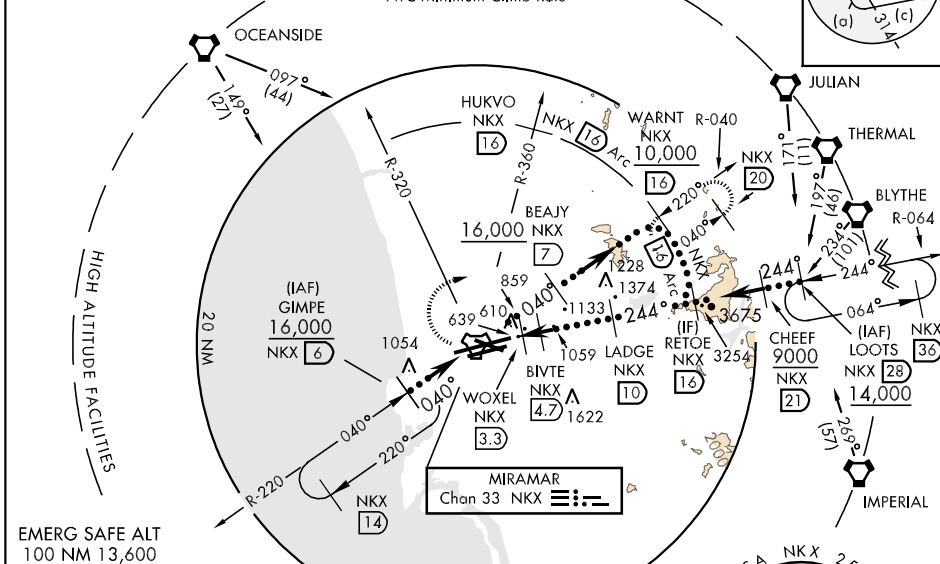
† MISSED APPROACH: Climb to 1500, then climbing right turn to 7000 via NKX TACAN R-360 to HUKVO. Arc NE of NKX via 16 mile arc to WARNT and hold. Cross R-320 at 3000 mandatory, cross HUKVO at 6000 mandatory.

ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	ASR/ PAR	LA CENTER 291.7
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† CAUTION: Missed Approach
Minimum Climb Rate to 6000

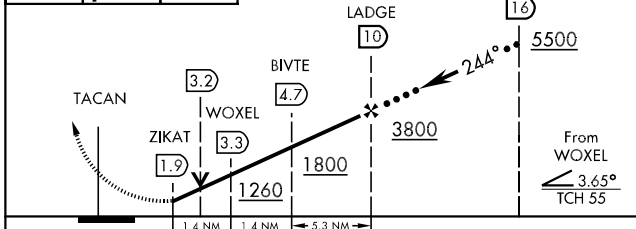
Knots	60	120	180	240	300	360
V/V(fpm)	275	550	825	1100	1375	1650

ATC Minimum Climb Rate



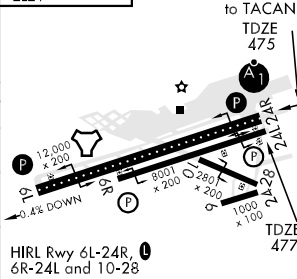
EMERG SAFE ALT
100 NM 13,600

1500	7000	HUKVO NKX
↑	NKX R-360	[16]



CATEGORY	C	D	E
S-24R *	1100-1¼ 625 (700-1¼)	1100-1½ 625 (700-1½)	1100-1¾ 625 (700-1¾)
SIDE-STEP 24L	1100-1¾ 623 (700-1¾)	1100-2 623 (700-2)	1100-2¼ 623 (700-2¼)
CIRCLING**	1100-1¾ 623 (700-1¾)	1160-2¼ 683 (700-2¼)	1360-3 883 (900-3)

ELEV 477



LOC I-NKX 111.15	APCH CRS 240°	Rwy Idg 12,000 TDZE 475 Arprt Elev 477
----------------------------	-------------------------	---

AL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)



* When ALS inop, increase CAT ABCDE vis to ¾ mile.

** When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1 ½ miles, CAT D to 1 ¾ miles, CAT E to 2 miles.

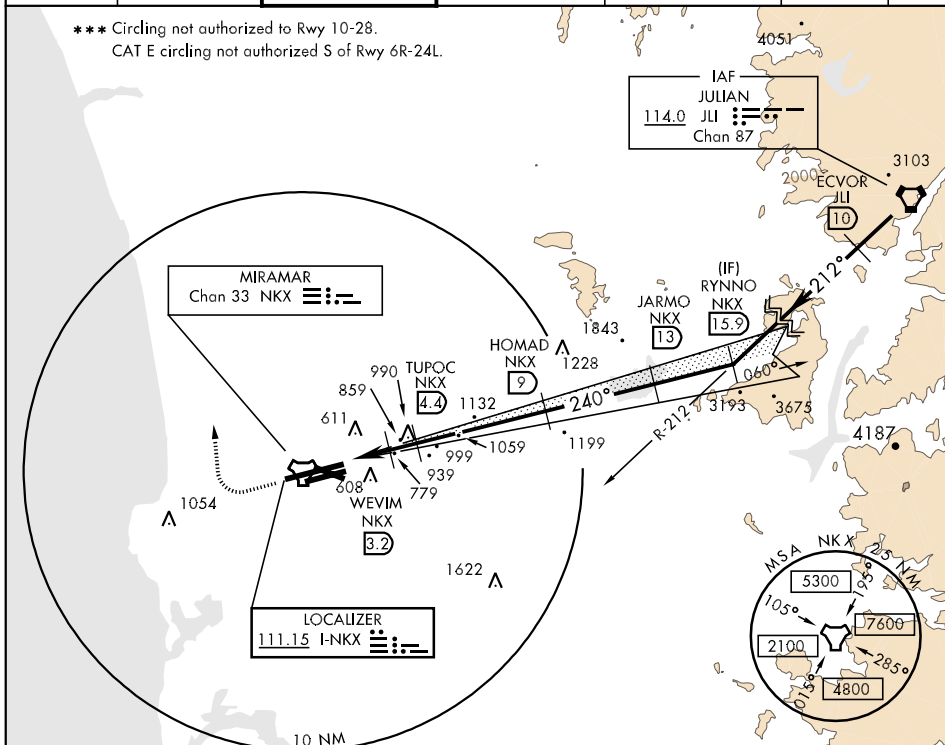


MISSED APPROACH: Climb to 1500, then climbing right turn to 3000 via heading 340°. Expect radar vectors.

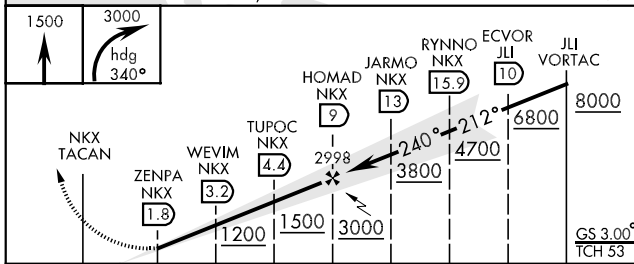
ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925 0	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	LA CENTER 291.7	ASR/ PAR
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*** Circling not authorized to Rwy 10-28.

CAT E circling not authorized S of Rwy 6R-24L.

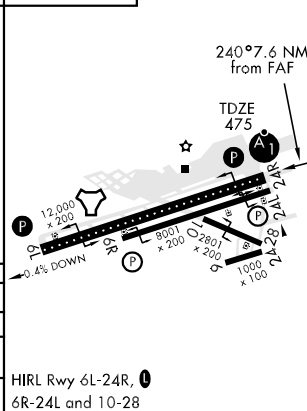


EMERG SAFE ALT 100 NM 13,600



CATEGORY	A	B	C	D	E
S-ILS 24R *	675 - ½		200	(200-½)	
S-LOC/ DME 24R **	1040-½	565 (600-½)	1040-1 565 (600-1)	1040-1½ 565 (600-1½)	1040-1½ 565 (600-1½)
CIRCLING ***	1040-1	563 (600-1)	1040-1½ 563 (600-1½)	1160-2½ 683 (700-2½)	1360-3 883 (900-3)

ELEV 477



LAKEE-ONE DEPARTURE

(LAKEE1 • LAKEE)

SAN DIEGO, CALIFORNIA

ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
132.2 269.1 E

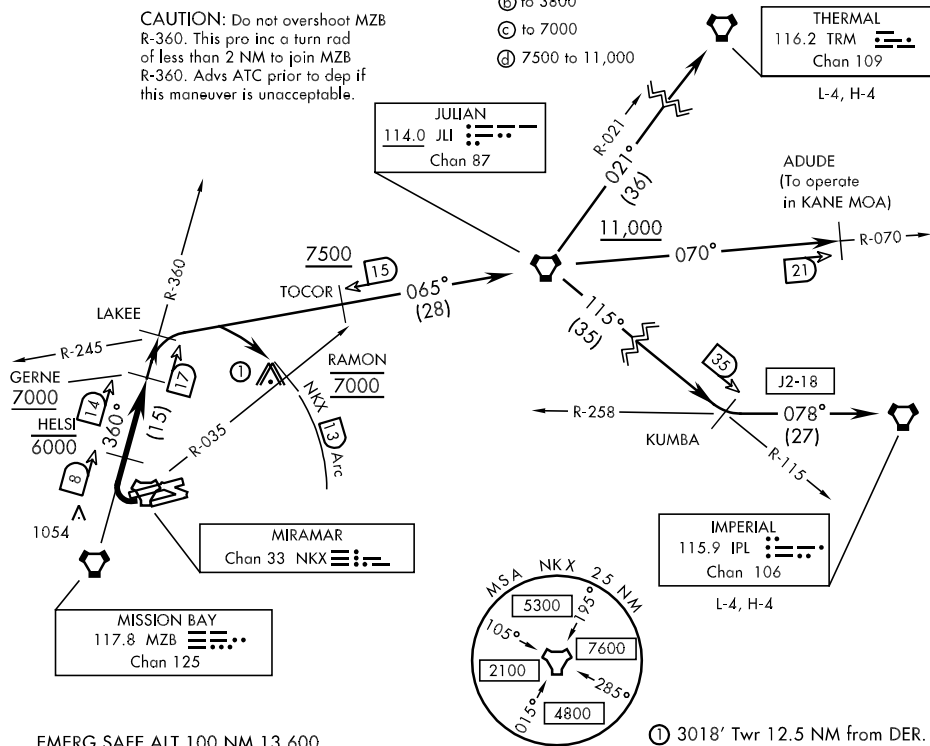
SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
* 24L/R (C)	V/V(fpm)	260	520	780	1040	1300	1560
** 24L/R (B)	V/V(fpm)	280	560	840	1120	1400	1680
† 24L/R (C)	V/V(fpm)	735	1470	2205	2940	3675	4410
† 24L/R (D)	V/V(fpm)	235	470	705	940	1175	1410

* Military Minimum ** Civil Minimum † ATC Minimum

- Ⓐ to 3600
- Ⓑ to 3800
- Ⓒ to 7000
- Ⓓ 7500 to 11,000

CAUTION: Do not overshoot MZB R-360. This procedure is a turn radius of less than 2 NM to join MZB R-360. Advise ATC prior to departure if this maneuver is unacceptable.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Turn right to intercept and proceed via MZB VORTAC R-360 to LAKEE INT. Cross HELSI at or below 6000. Cross GERNE at or above 7000. Thence...

ADUDE TRANSITION (LAKEE1 • ADUDE): Via JLI VORTAC R-245 to JLI. Then via JLI R-070 to ADUDE. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000. (To operate in KANE MOA.)

IMPERIAL TRANSITION (LAKEE1 • IPL): Via JLI VORTAC R-245 to JLI. Then via JLI R-115 to KUMBA INT, then via IPL VORTAC R-258 to IPL. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

(Continued on next page)

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

JULIAN TRANSITION (LAKEE1 • JLI): Via JLI VORTAC R-245 to JLI. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

RAMON TRANSITION (LAKEE1 • RAMON): Via JLI VORTAC R-245 to NKX TACAN 13 DME. Then arc NE of NKX via the 13 DME arc to RAMON. Cross RAMON at 7000 mandatory.

THERMAL TRANSITION (LAKEE1 • TRM): Via JLI VORTAC R-245 to JLI. Then via JLI R-021 to TRM VORTAC. Cross TOCOR at or above 7500. Cross JLI VORTAC at or above 11,000.

SW-3, 14 JAN 2010 to 11 FEB 2010

REDIN-ONE DEPARTURE (REDIN1 • REDIN)

MIRAMAR VORTAC (MIRACHTER FLD) (KNKX)
SAN DIEGO, CALIFORNIA

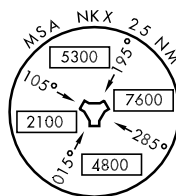
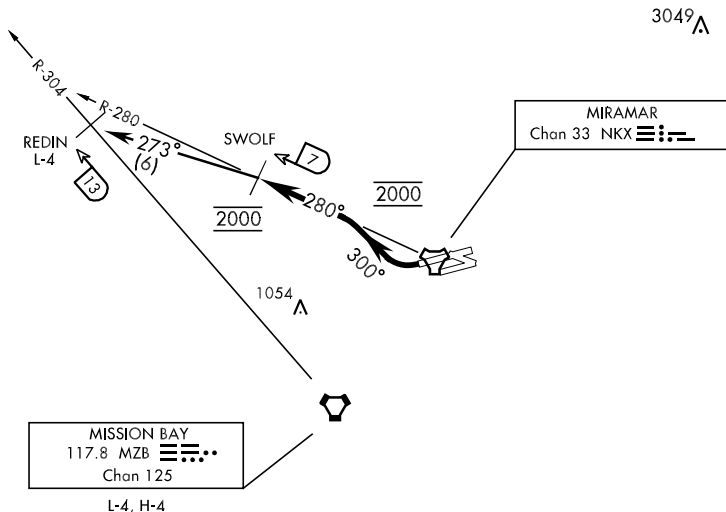
ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
119.6 363.1 W

SL-903 [USN]

Rwy	Knots	60	120	180	240
24L/R	V/V(fpm)	780	1560	2340	3120

ATC Climb Rate to 2000

RESTRICTED TO CAT A & B ACFT ONLY



EMERG SAFE ALT 100 NM 13,600



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 300° to intercept and proceed via NKX TACAN R-280 to SWOLF. Complete turn within NKX 2 DME. Join NKX R-280 at 2000 mandatory. Cross SWOLF at 2000 mandatory.

REDIN TRANSITION (REDIN1 • REDIN): Turn left heading 273° to intercept MZB VORTAC R-304 at REDIN.

WAAS CH 54028 W24A	APCH CRS 240°	Rwy Idg TDZE Arpt Elev 8001 477 477
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AL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)

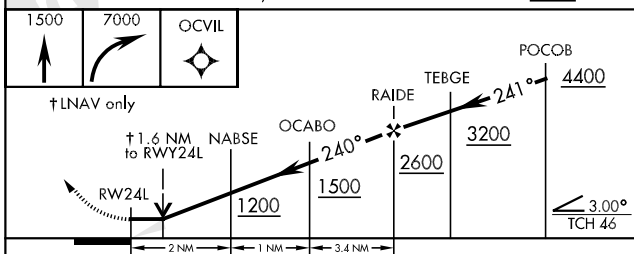
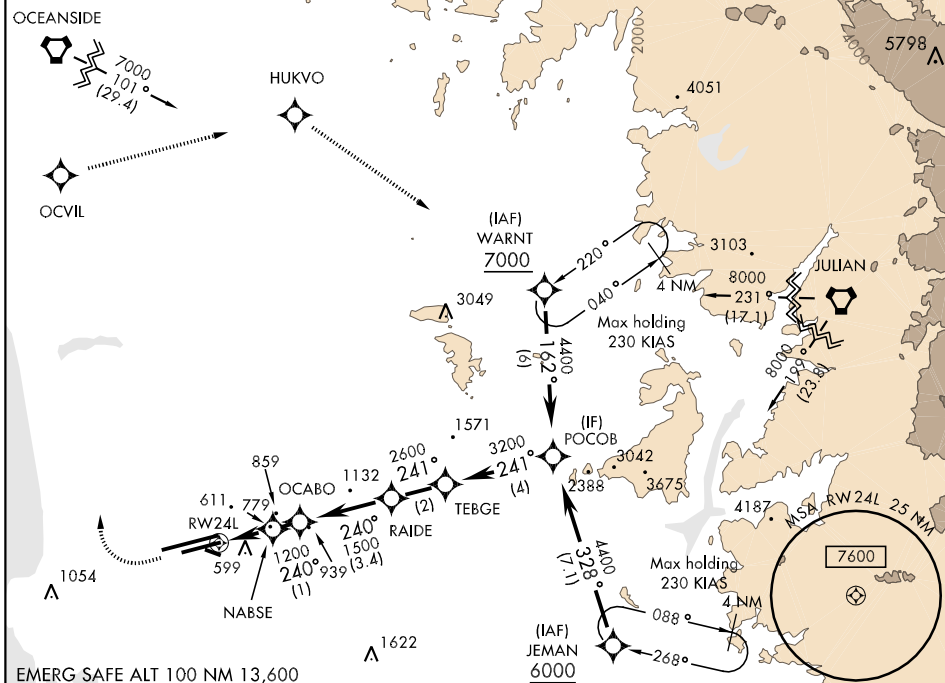


* Circling not authorized to Rwy 10-28.

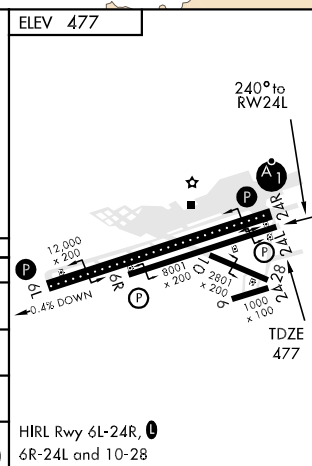
For uncompensated BARO-VNAV systems LNAV/VNAV
NA below -15° C (4° F) or above 35° C (95° F)MISSED APPROACH: Climb to 1500, then climbing right
turn to 7000 direct OCVIL, and right turn via 060° track to
HUKVO and right turn via 110° track to WARNT and hold.

ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925 0	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	LA CENTER 291.7	ASR/ PAR
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DME/DME RNP-0.3 NA.



CATEGORY	A	B	C	D
LPV DA	677-1	200	(200-1)	
LNAV/VNAV DA	900-1½	423	(500-1½)	
LNAV MDA	1040-1 563 (600-1)	1040-1½ 563 (600-1½)	1040-1¾ 563 (600-1¾)	
CIRCLING *	1040-1½ 563 (600-1½)		1160-2¼ 683 (700-2¼)	



WAAS CH 61450 W24B	APCH CRS 240°	Rwy ldg 12,000 TDZE 475 Arprt Elev 477
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AL-903 [USN]

MIRAMAR MCAS (MITSCHER FLD) (KNKX)

▼ * When ALS inop, increase CAT ABCD vis to 1 mile.
 ** When ALS inop, increase CAT ABCD vis to 1½ miles.



MISSED APPROACH: Climb to 1500, then climbing right turn to 7000 direct OCivil, and right turn via 060° track to HUKVO, and right turn via 110° track to WARNT and hold.

ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925 0	GND CON 128.625 307.325	CLNC DEL 125.975 254.325	LA CENTER 291.7	ASR/ PAR
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*** When ALS inop, increase CAT AB vis to 1 mile,
 CAT C vis to 1½ miles and Cat D vis to 1¾ miles.
 **** Circling not authorized to Rwy 10-28

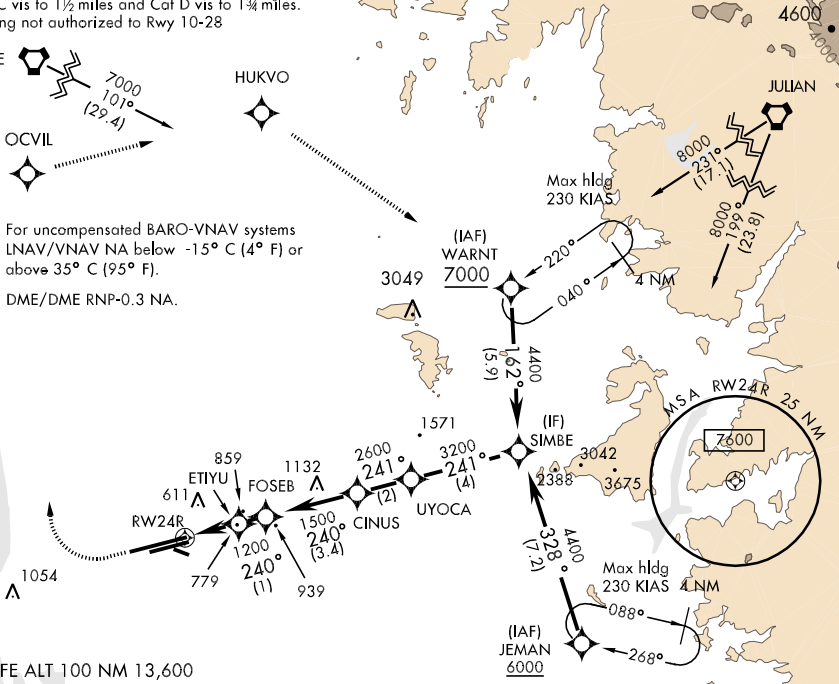
OCEANSIDE

OCivil

HUKVO

For uncompensated BARO-VNAV systems
 LNAV/VNAV NA below -15° C (4° F) or
 above 35° C (95° F).

DME/DME RNP-0.3 NA.



EMERG SAFE ALT 100 NM 13,600

1500

7000

OCVIL

↑ LNAV only

↑ 1.6 NM to RW24R

2.0 NM

1.0 NM

3.4 NM

ETIYU

FOSEB

CINUS

UYOCA

SIMBE

1200

1500

2600

3200

4400

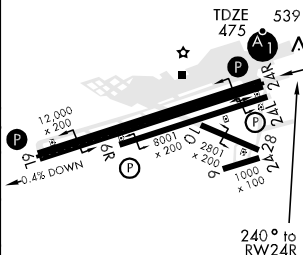
240°

241°

3.00° TCH 53

CATEGORY	A	B	C	D
LPV DA *	675-½		200 (200-½)	
LNAV/VNAV DA **	900-1		425 (500-1)	
***			1040-1	1040-1½
LNAV MDA	1040-½ 565 (600-½)		565 (600-1)	565 (600-1½)
****				1160-2¼
CIRCLING	1040-1½ 563 (600-1½)			683 (700-2¼)

ELEV 477



HIRL Rwy 6L-24R, 0
 6R-24L and 10-28

SWOLF-SIX DEPARTURE (SWOLF 6 • SWOLF)

SAN DIEGO, CALIFORNIA

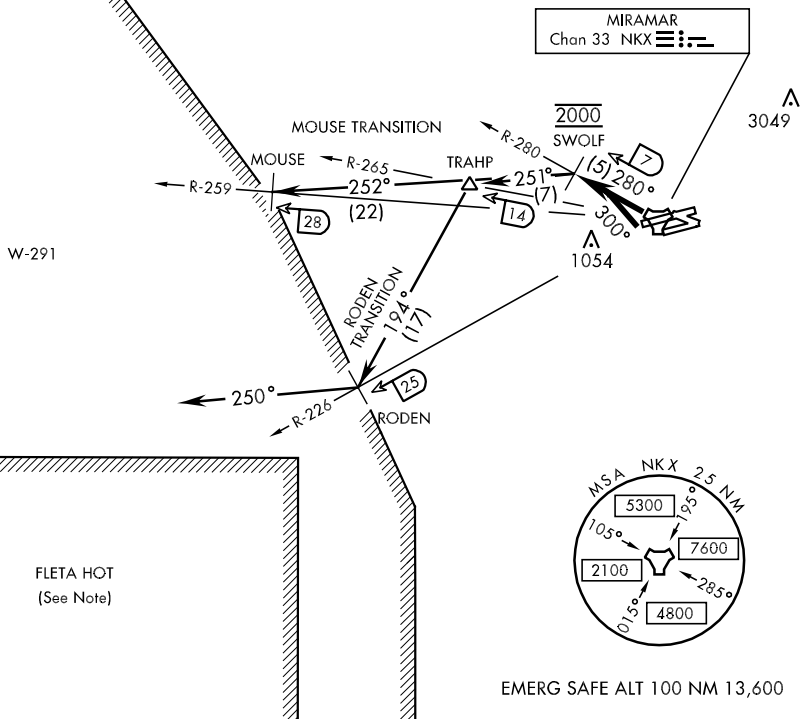
ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
119.6 363.1 W

SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
24L/R	V/V(fpm)	780	1560	2340	3120	3900	4680

ATC Minimum Climb Rate to 2000

FOR USE TO W-291 ONLY



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 300° to intercept and proceed via NKX TACAN R-280 to SWOLF. Complete turn within NKX 2 DME. Join NKX R-280 at 2000 mand. Cross SWOLF at 2000 mand. Thence...

MOUSE TRANSITION (SWOLF 6 • MOUSE): Turn left heading 252° to intercept NKX R-259 at MOUSE. Maintain 2000 for entry into W-291.

(Continued on next page)

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

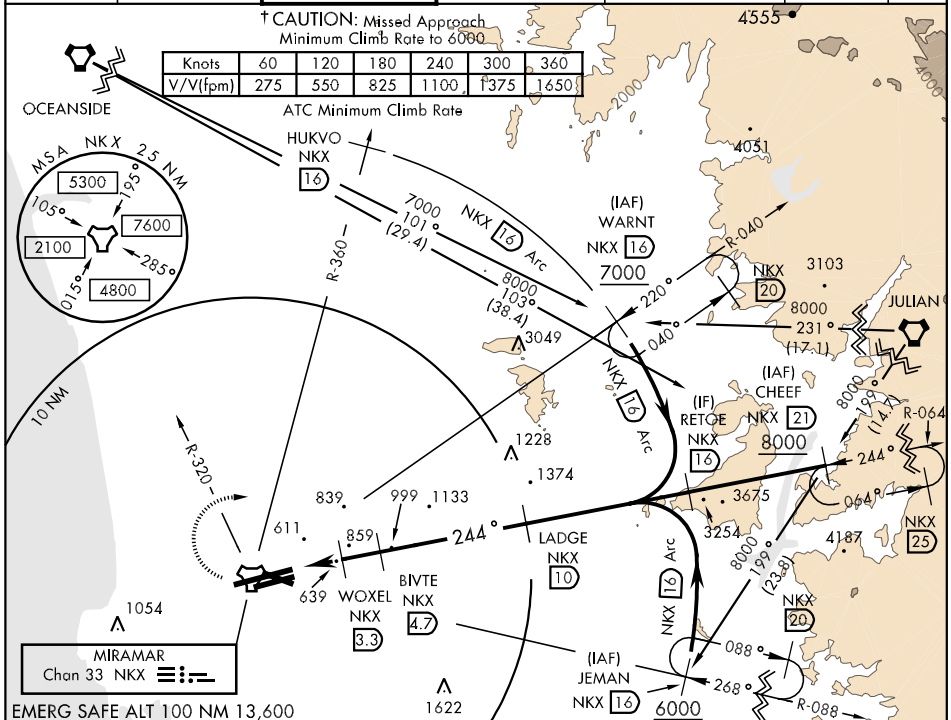
RODEN TRANSITION (SWOLF 6 • RODEN): Turn left heading 251° to intercept NKX R-265 at TRAHP. Then turn left heading 194° to intercept NKX R-226 at RODEN. Maintain 2000 for entry into W-291 via heading 250°.

NOTE:

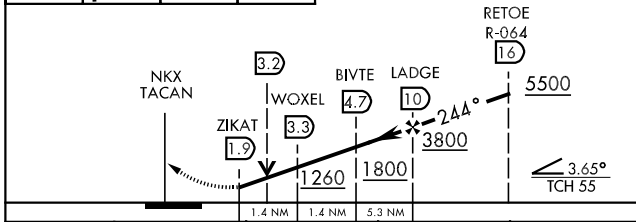
- (1) FLETA HOT-ACTIVE FIRING AREA (DANGER, REMAIN CLEAR).
- (2) ALL AIRCRAFT SHOULD MAINTAIN LAST ASSIGNED HEADING/RADIAL AND ALTITUDE TO AVOID INBOUND MILITARY OR CIVIL AIRCRAFT AT HIGHER ALTITUDES!

SW-3, 14 JAN 2010 to 11 FEB 2010

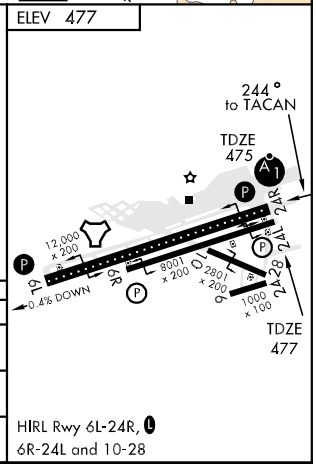
TACAN NKX Chan 33	APCH CRS 244°	Rwy Idg TDZE 24R Arpt Elev	12,000 24L 8001 477	AL-903 [USN]	TACAN RWY 24R		
			MIRAMAR MCAS (MITSCHER FLD) (KNKX)				
▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1½ miles, CAT D to 2 miles. ** Circling not authorized to Rwy 10-28.			ALSF-1 	† MISSED APPROACH: Climb to 1500, then climbing right turn to 7000 via NKX TACAN R-360 to HUKVO. Arc NE of NKX via the 16 mile arc to WART and hold. Cross NKX R-320 at 3000 mandatory, cross HUKVO at 6000 mandatory.			
ATIS ★ 352.0	SOCAL APP CON 132.2 269.1	MIRAMAR TOWER ★ 135.2 298.925 0	GND CON 128.625 307.325		CLNC DEL 125.975 254.325	LA CENTER 291.7	ASR/ PAR



EMERG SAFE ALT 100 NM 13,600	1500	7000	HUKVO NKX 16	Arc NE 16
	↑	NKX R-360		



CATEGORY	A	B	C	D
S-24R *	1100-½ 625 (700-½)		1100-1¼ 625 (700-1¼)	1100-1½ 625 (700-1½)
SIDE-STEP 24L	1100-1 623 (700-1)		1100-1¾ 623 (700-1¾)	1100-2 623 (700-2)
CIRCLING **	1100-1 623 (700-1)		1100-1¾ 623 (700-1¾)	1160-2¼ 683 (700-2¼)



SAN DIEGO, CALIFORNIA

SHL-903 [USN]

ATC Minimum Climb Rate to 2000

SHAFTER
115.4 EHF
Chan 101
L-3,L-7,H-4

L-3,L-7,H-4

SAN MARCUS
114.9 RZS 
Chan 96
L-3.L4.L7.H-4

L-3.L4.L7.H-4

VENTURA
2 VTU 
Chap. 18

Chap. 19

MIRAMAR
Chan 33 NKX 

Chan 33 NKX

2

SWOLE

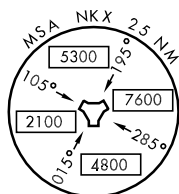
2000

253°/

20

MISSION BAY
117.8 MZB

Chan 125



EMERG SAFE ALT 100 NM 13,600

NOTE: Chart not to scale

SAN DIEGO, CALIFORNIA

SHL-903 [USN]



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 24L/R: Climbing right turn to 2000 via heading 300° to intercept and proceed via NKX TACAN R-280 to SWOLF. Complete turn within NKX 2 DME. Join NKX R-280 at 2000 mandatory. Cross SWOLF at 2000 mandatory. Then turn left heading 253° to intercept and proceed via MZB VORTAC R-300 to TINNY INT. Thence...

SAN MARCUS TRANSITION (TINNY1•RZS): Via VTU VOR/DME R-111 to VTU, then via RZS VORTAC R-109 to RZS.

SHAFTER TRANSITION (TINNY1•EHF): Via EHF VORTAC R-144 to EHF.

VITKO-ONE DEPARTURE (VITKO1 • VITKO)

SAN DIEGO, CALIFORNIA

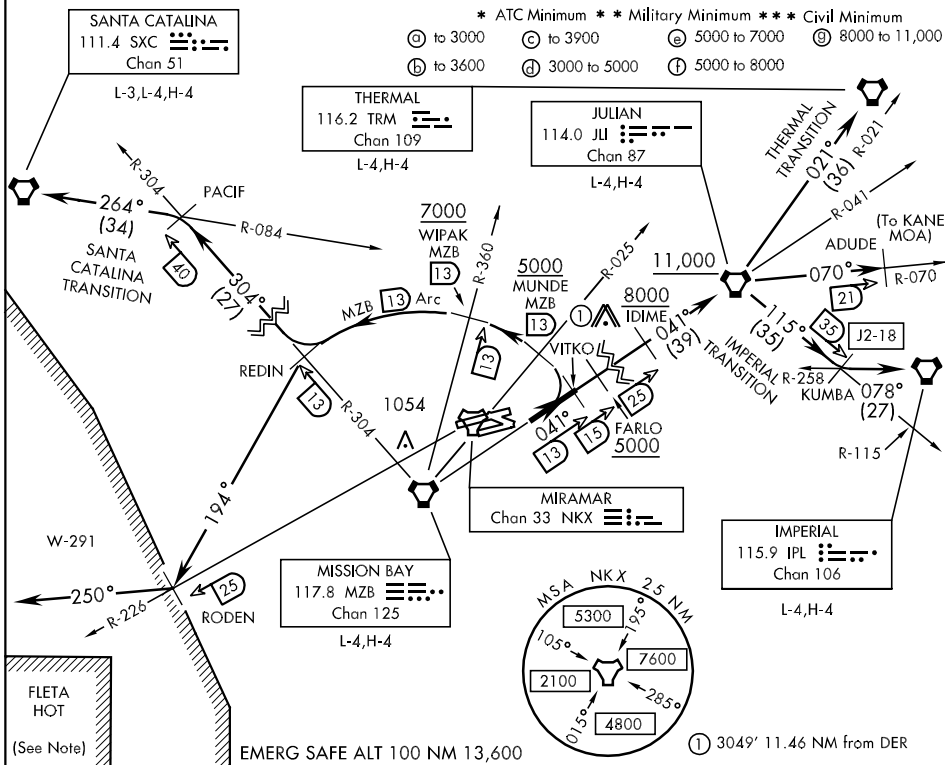
ATIS ★ 352.0
CLNC DEL
125.975 254.325
GND CON
128.625 307.325
MIRAMAR TOWER ★
135.2 298.925
SOCAL DEP CON
132.2 269.1 E

SHL-903 [USN]

Rwy	Knots	60	120	180	240	300	360
* 6L/R(Ⓐ)	V/V(fpm)	520	1040	1560	2080	2600	3120
** 6L/R(Ⓑ)	V/V(fpm)	280	560	840	1120	1400	1680
*** 6L/R(Ⓒ)	V/V(fpm)	300	600	900	1200	1500	1800
* 6L/R(Ⓓ)	V/V(fpm)	680	1360	2040	2720	3400	4080
* 6L/R(Ⓔ)	V/V(fpm)	353	706	1059	1412	1765	2118
* 6L/R(Ⓕ)	V/V(fpm)	300	600	900	1200	1500	1800
* 6L/R(Ⓖ)	V/V(fpm)	220	440	660	880	1100	1320

* ATC Minimum ** Military Minimum *** Civil Minimum

Ⓐ to 3000 Ⓑ to 3900 Ⓒ 5000 to 7000 Ⓓ 8000 to 11,000
Ⓔ to 3600 Ⓕ 3000 to 5000 Ⓖ 5000 to 8000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 6L/R: Climb via heading 060° to intercept and proceed via MZB VORTAC R-041 to VITKO. Join MZB R-041 at or above 3000. Thence...

ADUDE TRANSITION (VITKO1 • ADUDE): Via MZB R-041 to JLI VORTAC. Then JLI R-070 to ADUDE. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000. (To operate in KANE MOA.)

IMPERIAL TRANSITION (VITKO1 • IPL): Via MZB R-041 to JLI VORTAC. Then via JLI R-115 to KUMBA INT, then via IPL VORTAC R-258 to IPL. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000.

(Continued on next page)

SHL-903 [USN]

DEPARTURE ROUTE DESCRIPTION

(Continued)

RODEN TRANSITION (VITKO1 • RODEN): Arc N of MZB VORTAC via the 13 mile arc to REDIN. Then turn left heading 194° to intercept NKX R-226 at RODEN. Then turn right heading 250° for entry into W-291. Cross MUNDE at or above 5000. Cross WIPAK at or above 7000.

SANTA CATALINA TRANSITION (VITKO1 • SXC): Arc N of MZB VORTAC via the 13 mile arc to REDIN. Then via MZB R-304 to PACIF INT. Then via SXC R-084 to SXC VORTAC. Cross MUNDE at or above 5000. Cross WIPAK at or above 7000.

THERMAL TRANSITION (VITKO1 • TRM): Via MZB R-041 to JLI VORTAC. Then via JLI R-021 to TRM VORTAC. Cross FARLO at or above 5000. Cross IDIME at or above 8000. Cross JLI VORTAC at or above 11,000.

NOTE:

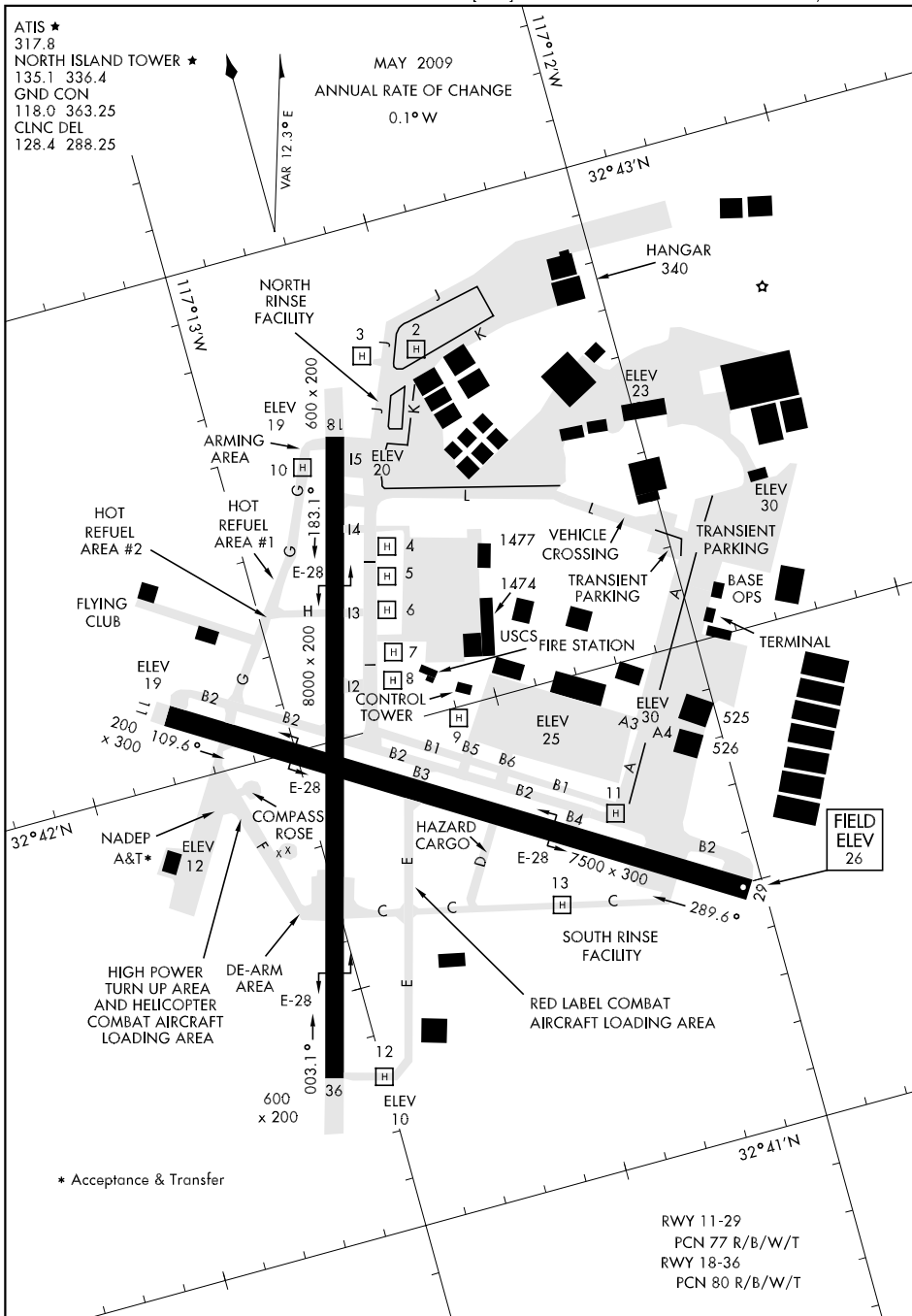
- (1) FLETA HOT-ACTIVE FIRING AREA (DANGER, REMAIN CLEAR).
- (2) ALL AIRCRAFT SHOULD MAINTAIN LAST ASSIGNED HEADING/RADIAL AND ALTITUDE TO AVOID INBOUND MILITARY OR CIVIL AIRCRAFT AT HIGHER ALTITUDES!

SW-3, 14 JAN 2010 to 11 FEB 2010

ATIS ★
317.8
NORTH ISLAND TOWER ★
135.1 336.4
GND CON
118.0 363.25
CLNC DEL
128.4 288.25

MAY 2009
ANNUAL RATE OF CHANGE
0.1° W

SW-3, 14 JAN 2010 to 11 FEB 2010



ARRIVAL DESCRIPTION

IMPERIAL TRANSITION (IPL.BARET4): From over IPL VORTAC via IPL R-258 and MZB R-076 to BARET INT. Thence....

NEEDLES TRANSITION (EED.BARET4): From over EED VORTAC via EED R-208 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

PARKER TRANSITION (PKE.BARET4): From over PKE VORTAC via PKE R-227 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.BARET4): From over TNP VORTAC via TNP R-179 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to PGY VORTAC. Thence....

....WHEN SAN ARRIVALS USING RWY 9: Via PGY R-043 to PGY VORTAC, then via PGY R-270 to intercept the OCN R-162, then via OCN R-162 to SARGS INT. Expect ILS Rwy 9 approach to SAN or ILS-A approach to NZY.

....WHEN SAN ARRIVALS USING RWY 27: Via PGY R-043 to intercept I-UBR localizer, then via I-UBR localizer to SWATT INT. Expect LOC Rwy 27 approach to SAN or LOC-A approach to NZY.

LOST COMMUNICATIONS: In the event of lost communications, North Island arrival shall execute the TACAN Rwy 29 or Rwy 36.

TACAN NZY Chan 117	APCH CRS 296°	Rwy ldg TDZE Arprt Elev	7500 26 26
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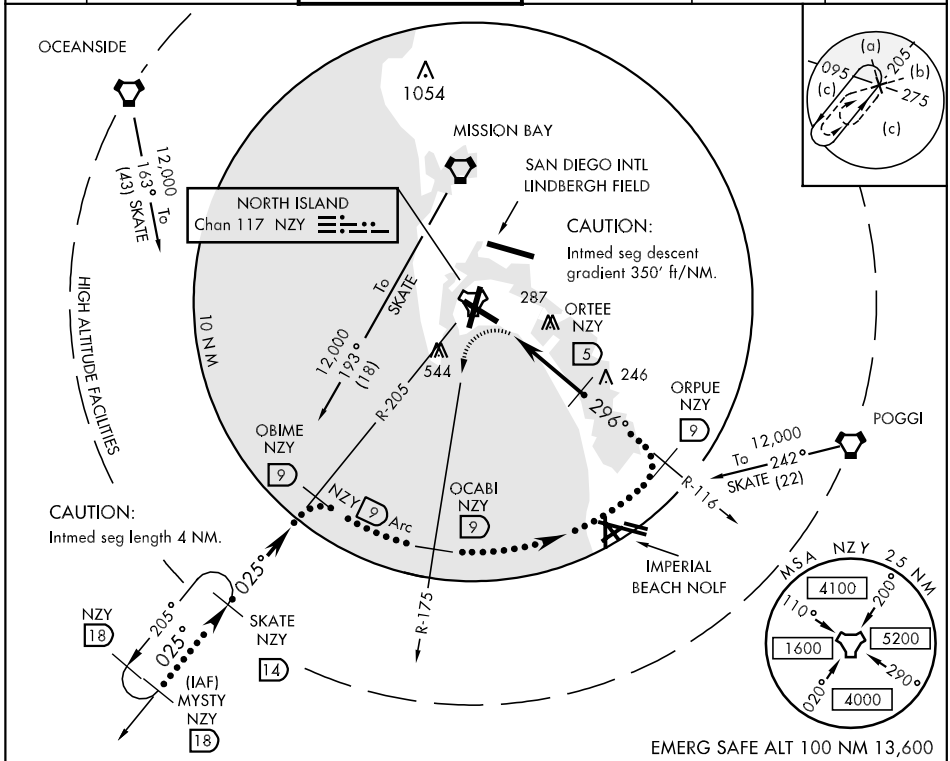
JAL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

▼ * When ALS inop, increase vis CAT C to 1½ miles, CAT DE to 1¾ miles. ** When ALS inop, increase vis CAT CDE to 1 mile.	ALSF-1
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MISSED APPROACH: Climbing to left turn to 2000 via NZY TACAN R-175 to OCABI. Arc S on the NZY 9 DME arc to OBIME, then via NZY R-205 to SKATE and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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TACAN NZY Chan 117	APCH CRS 358°	Rwy ldg TDZE Arprt Elev 8000 19 26
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JAL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

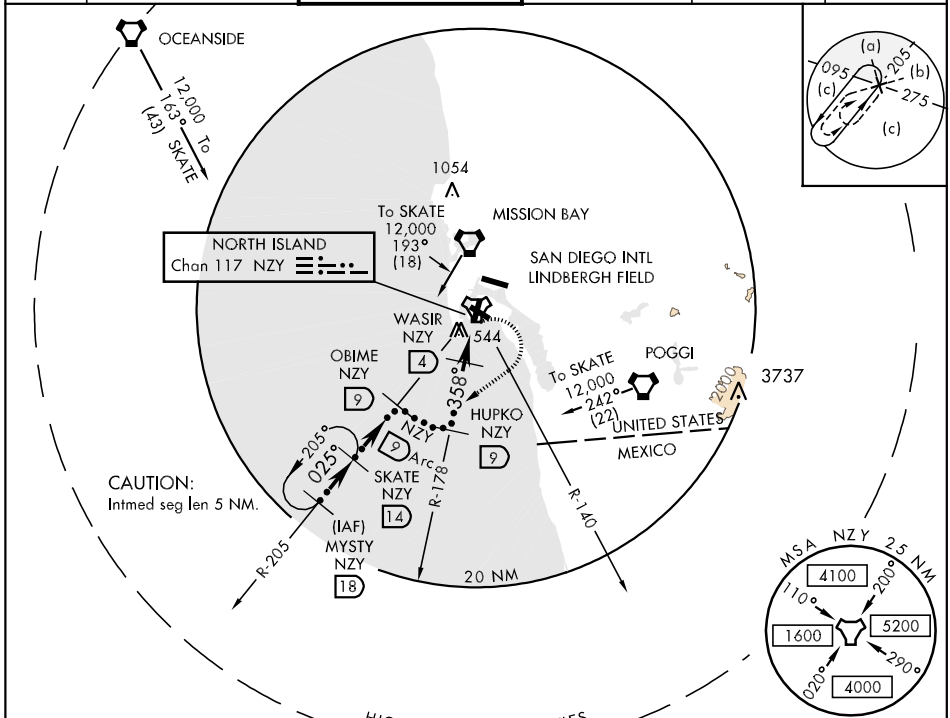
▼ * When ALS inop, increase vis CAT C to 2 ¼ miles,
CAT D to 2 ½ miles, CAT E to 2 ¾ miles.
** When ALS inop, increase vis CAT CDE to ½ mile.

SALSF



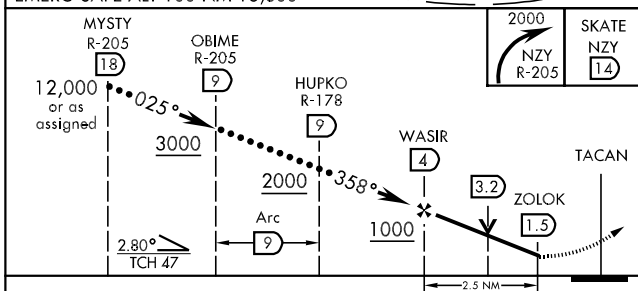
MISSED APPROACH: Climbing right turn to 2000
intercept the NZY TACAN R-205 to SKATE and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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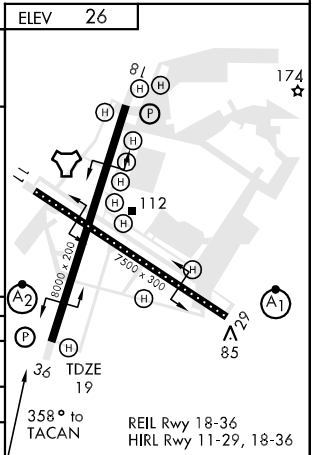


EMERG SAFE ALT 100 NM 13,600

HIGH ALTITUDE FACILITIES



CATEGORY	C	D	E
S-36 *	800-2 781 (800-2)	800-2 ¼ 781 (800-2 ¼)	800-2 ½ 781 (800-2 ½)
CIRCLING	NOT AUTHORIZED		
S-PAR 36 **	119-¼	100 (100-¼)	GS 3.00°



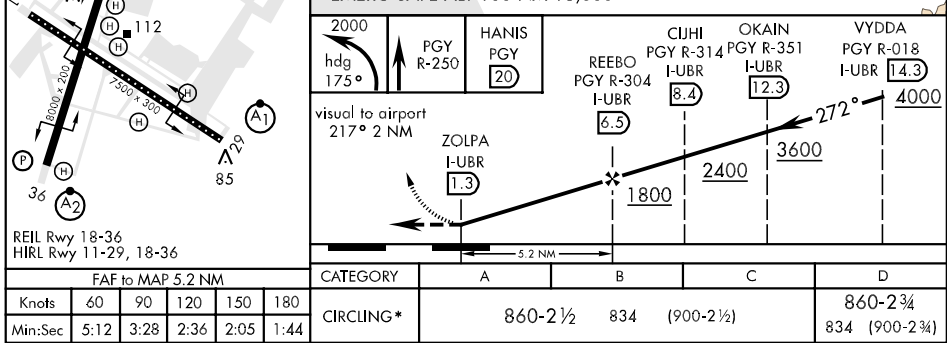
▼ * CAUTION: Maneuvering for circling approach not authorized W of Rwy18-36 centerline. Approach authorized for Rwy 18 or left downward approach to Rwy 29 after flying down Rwy 18.	MISSED APPROACH: Climb and maintain 2000 via hdg 175°, intercept PGY VORTAC R-250 to HANIS and hold.
--	--

MISSION BAY
117.8 MZB
Chan 125

CAUTION: Aircraft executing missed approach after beginning circling maneuver do not return to missed approach point.

3675

Procedure NA for arrivals at RYAHN via V66-440-514 Eastbound.



LOC I-SAN 111.55 Chan 52 (Y)	APCH CRS 092°	Rwy Idg TDZE Arpt Elev N/A 26
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AL-374 [USN]

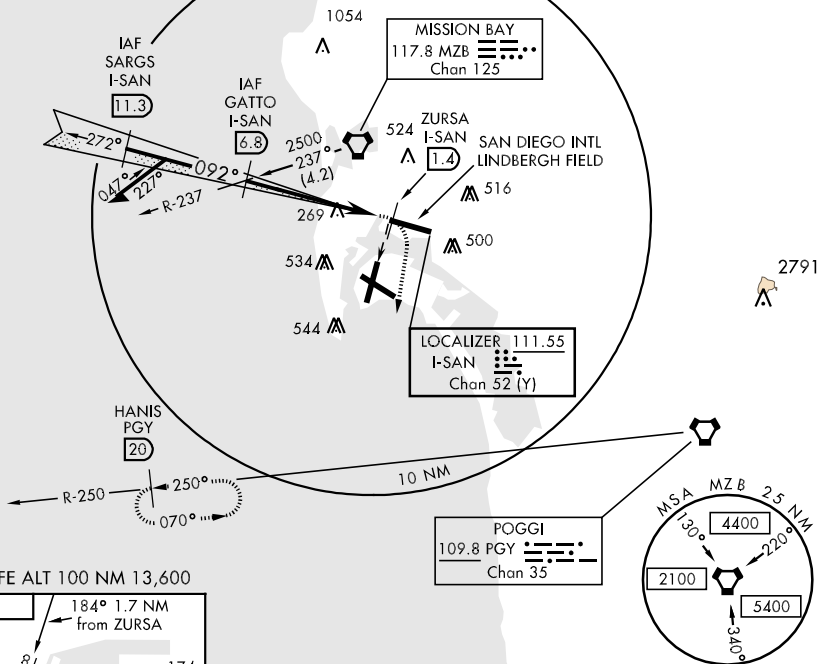
NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

▼ ***CAUTION:** Maneuvering for circling approach not authorized W of Rwy 18-36 centerline. Approach authorized for Rwy 18 or left downwind approach to Rwy 29 after flying down Rwy 18.

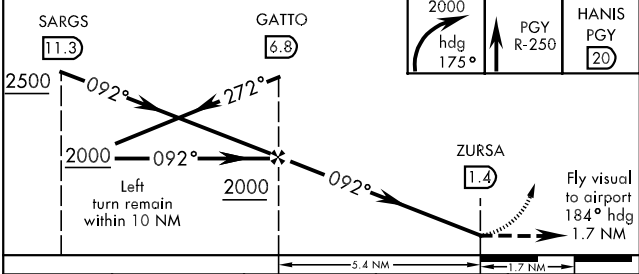
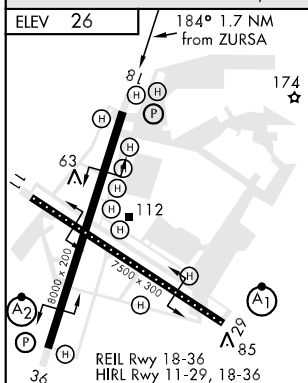
MISSED APPROACH: Climb and maintain 2000 via hdg 175°, intercept PGY VORTAC R-250 to HANIS and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	LINDBERGH TOWER 118.3 270.9	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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CAUTION: Aircraft executing missed approach after beginning circling maneuver do not return to missed approach point.



EMERG SAFE ALT 100 NM 13,600



FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:49	2:14	1:52

CATEGORY	A		B	C	D
CIRCLING *	860-2	834	(900-2)	860-2½ 834 (900-2½)	860-2¾ 834 (900-2¾)

NASNI-FIVE DEPARTURE (NASNI 5 • NASNI)

SHL-374 [USN]

SAN DIEGO, CALIFORNIA

ATIS ★
317.8
CLNC DEL
128.4 288.25
GND CON
118.0 363.25
NORTH ISLAND TOWER ★
135.1 336.4
SOCAL DEP CON
125.15 317.55

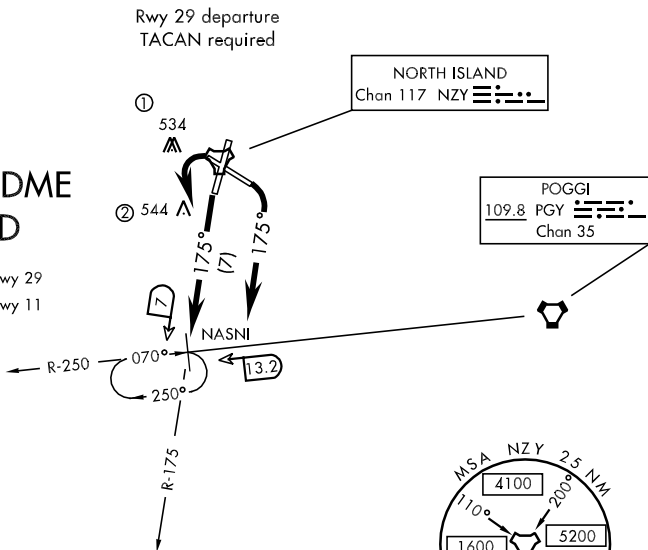
Minimum Climb Rate

Rwy	Knots	60	120	180	240	300	360
11 (a)	V/V(fpm)	265	530	795	1060	1325	1590
11 (b)	V/V(fpm)	290	580	870	1160	1450	1740
29 (c)	V/V(fpm)	410	820	1230	1640	2050	2460
29 (d)	V/V(fpm)	480	960	1440	1920	2400	2880

- (a) Military climb to 700 or 600-2¼ authorized in lieu of climb rate.
- (b) Civil climb to 700 or 600-2¼ authorized in lieu of climb rate.
- (c) Military climb to 400 or 600-2½ authorized in lieu of climb rate.
- (d) Civil climb to 500 or 600-2½ authorized in lieu of climb rate.

RADAR and DME REQUIRED

- ① 1.4 NM from DER Rwy 29
- ② 2.4 NM from DER Rwy 11



LOST COMMUNICATIONS: If no transmissions are received prior to crossing the PGY VORTAC R-250 Southbound, turn direct on PGY R-250 to NASNI and hold as published, if no transmissions received within five minutes after entering holding, proceed on course, climb to filed altitude.

EMERG SAFE ALT 100 NM 13,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 11: Immediate climbing right turn to 2000 via heading 175°, remain within NZY TACAN 1.4 DME to not overfly the City of Coronado, thence...

TAKE-OFF RWY 18: Climb to 2000 via heading 175°, thence

TAKE-OFF RWY 29: Immediate climbing left turn to 2000, remain within NZY TACAN 1 DME to not overfly Point Loma, intercept the NZY R-175 to NASNI, thence...

Expect radar vector to join assigned route.

APCH CRS **355°** Rwy Idg **8000**
TDZE **19**
Arpt Elev **26**

AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

▼ * When ALS inop, increase vis CAT ABCD to 1 1/4 miles.

SALSF

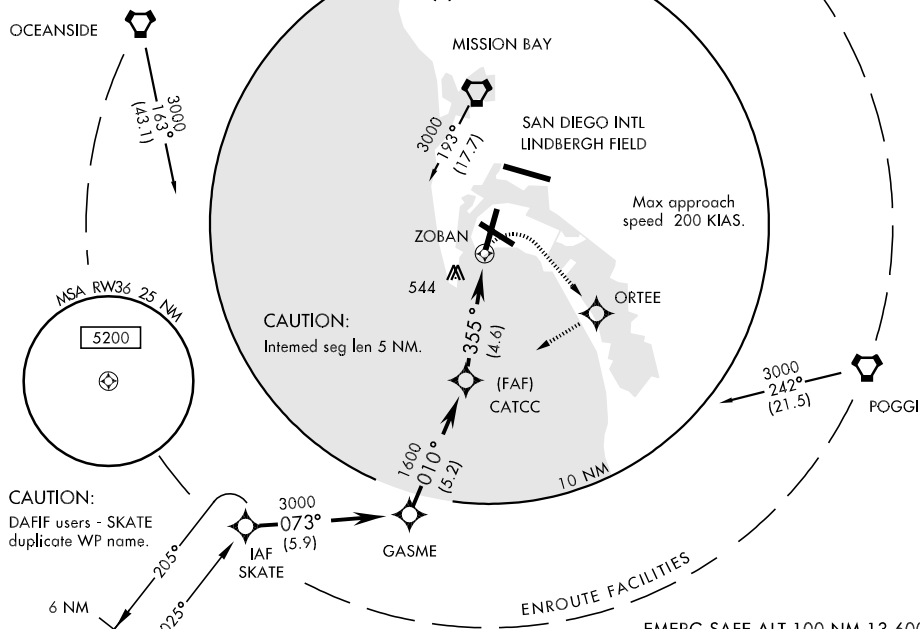


MISSED APPROACH: Climbing right turn to 2000 direct ORTEE, then turn right via track 226° to SKATE and hold.

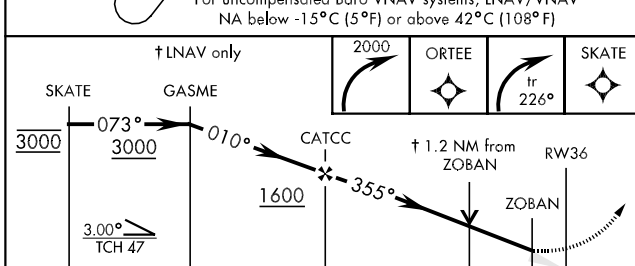
ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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*** When ALS inop, increase vis CAT ABCD to 1/2 mile.

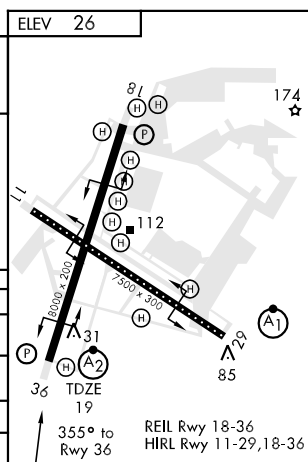
DME/DME RNP-0.3 NA.



EMERG SAFE ALT 100 NM 13,600



CATEGORY	A	B	C	D
LNAV/VNAV DA *	380-1		361	(400-1)
LNAV MDA **	460-3/4	441 (500-3/4)	441 (500-1)	460-1 1/4 (500-1 1/4)
CIRCLING	NOT AUTHORIZED			
S-PAR 36 ***	119-1/4	100	(100- 1/4)	GS 3.00°



TACAN NZY Chan 117	APCH CRS 296°	Rwy Idg 7500 TDZE 26 Arpt Elev 26
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AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

T * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1½ miles, CAT D to 1¾ miles.
** When ALS inop, increase vis CAT ABCD to 1 mile.



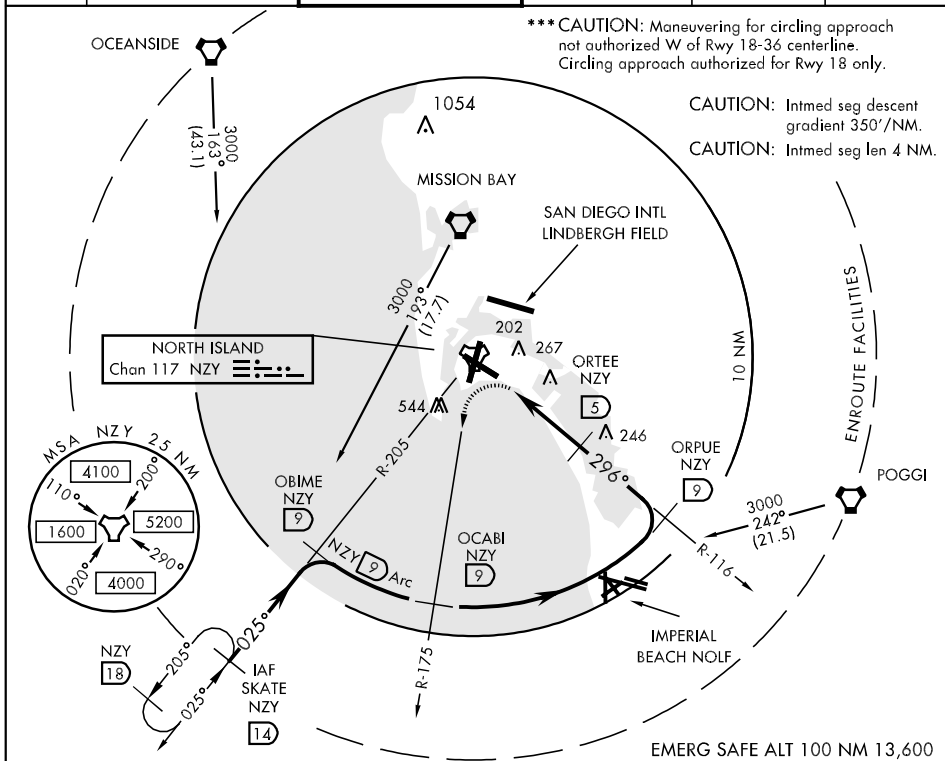
MISSED APPROACH: Climbing left turn to 2000 via NZY TACAN R-175 to OCAB. Arc S on NZY 9 DME arc to OBIME, then via NZY R-205 to SKATE and hold.

ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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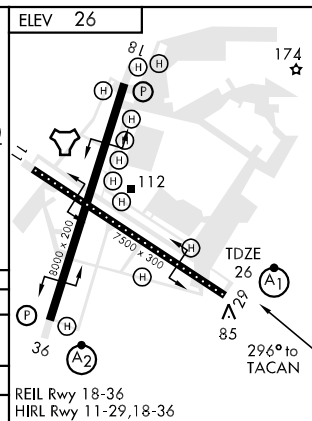
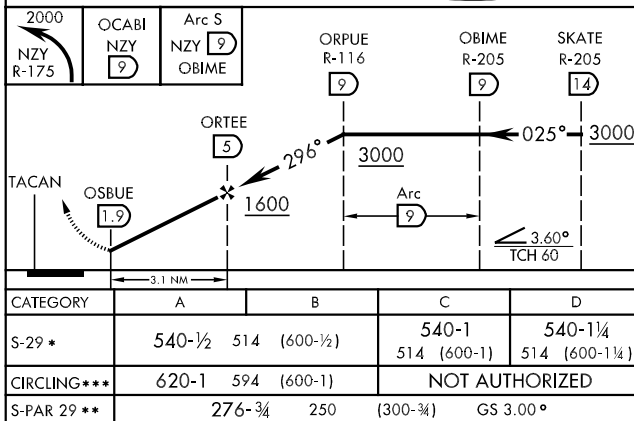
***CAUTION: Maneuvering for circling approach
not authorized W of Rwy 18-36 centerline.
Circling approach authorized for Rwy 18 only.

CAUTION: Intmed seg descent
gradient 350'/NM.

CAUTION: Intmed seg len 4 NM.



EMERG SAFE ALT 100 NM 13,600



SAN DIEGO, CALIFORNIA

32°42'N-117°13'W

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

Amdt 1 09127

TACAN L B MAY 00

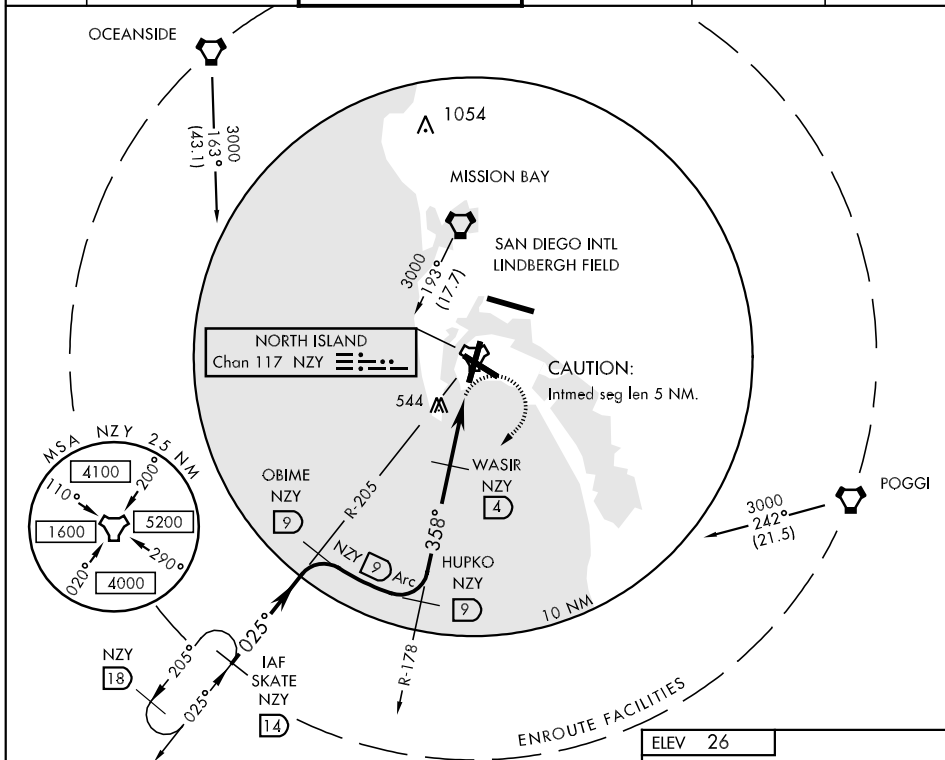
TACAN NZY Chan 117	APCH CRS 358°	Rwy ldg 8000 TDZE 19 Arpt Elev 26
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AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

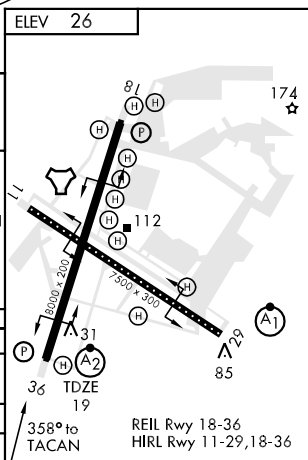
▼ * When ALS inop, increase vis CAT A to 1 mile, CAT B to 1½ miles, CAT C to 2¼ miles, CAT D to 2½ miles. ** When ALS inop, increase vis CAT ABCD to ½ mile.	SALSF 	MISSED APPROACH: Climbing right turn to 2000 intercept the NZY TACAN R-205 to SKATE and hold.
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ATIS ★ 317.8	SOCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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EMERG SAFE ALT 100 NM 13,600

SKATE R-205 14		OBIME R-205 9		HUPKO R-178 9		WASIR 4		2000 3.2		NZY R-205		SKATE NZY 14	
3000		3000		2000		1000		2.5 NM					
025°		2.80° TCH 47		Arc 9		358°						ZOLOK 1.5	
						✕						TACAN	
CATEGORY		A		B		C		D					
S-36 *		800-¾ 781 (800-¾)		800-1 781 (800-1)		800-2 781 (800-2)		800-2¼ 781 (800-2¼)					
CIRCLING		NOT AUTHORIZED											
S-PAR 36 **		119-¼		100		(100-¼)		GS 3.00°					



VORTAC PGY 109.8 Chan 35	APCH CRS 279°	Rwy Idg 7500 TDZE 26 Arpt Elev 26
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AL-374 [USN]

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

T

- * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¾ miles, CAT D to 2 miles.
- ** When ALS inop. increase vis CAT ABCD to 1 mile.

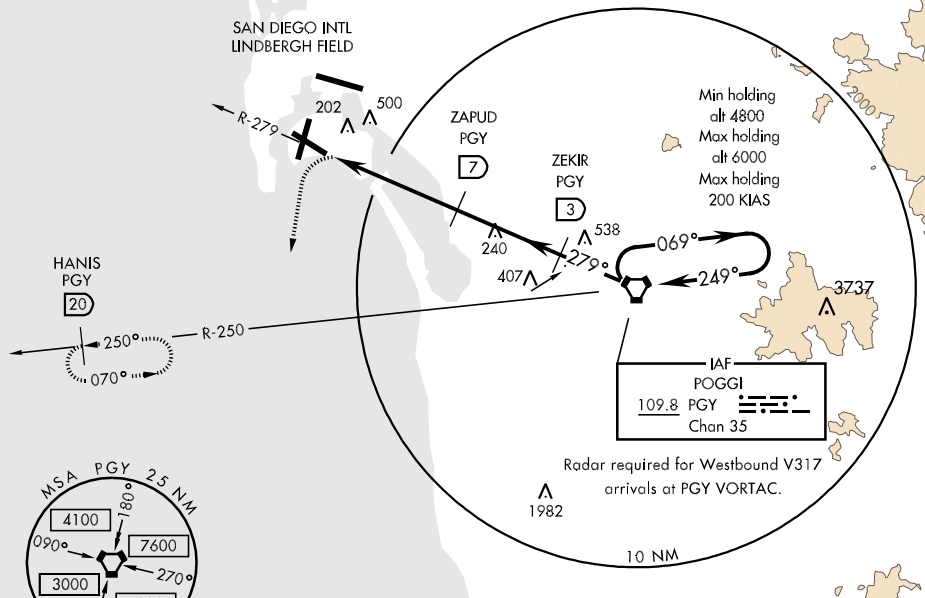


MISSED APPROACH: Climbing left turn to 2000 via hdg 175° intercept PGY VORTAC R-250 to HANIS and hold.

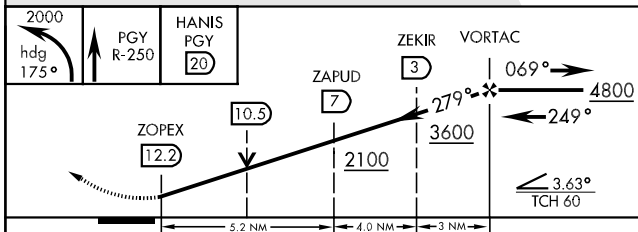
ATIS ★ 317.8	SQCAL APP CON 125.15 317.55	NORTH ISLAND TOWER ★ 135.1 336.4	GND CON 118.0 363.25	CLNC DEL 128.4 288.25	PAR/ASR
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*** Circling not authorized West of Rwy 18-36.
Circling authorized to Rwy 18 only.

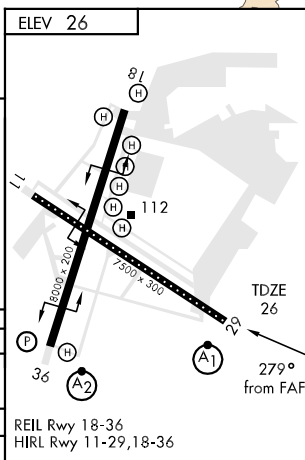
CAUTION: Final apch length 12.2 NM



EMERG SAFE ALT 100 NM 13,600



CATEGORY	A	B	C	D
S-29 *	640-1/2 614 (700-1/2)		640-1 1/4 614 (700-1 1/4)	640-1 1/2 614 (700-1 1/2)
CIRCLING ***	640-1 614 (700-1)		NOT AUTHORIZED	
S-PAR 29 **	276-3/4	250	(300-3/4)	GS 3.00 °



SAN DIEGO, CALIFORNIA

32°42'N-117°13'W

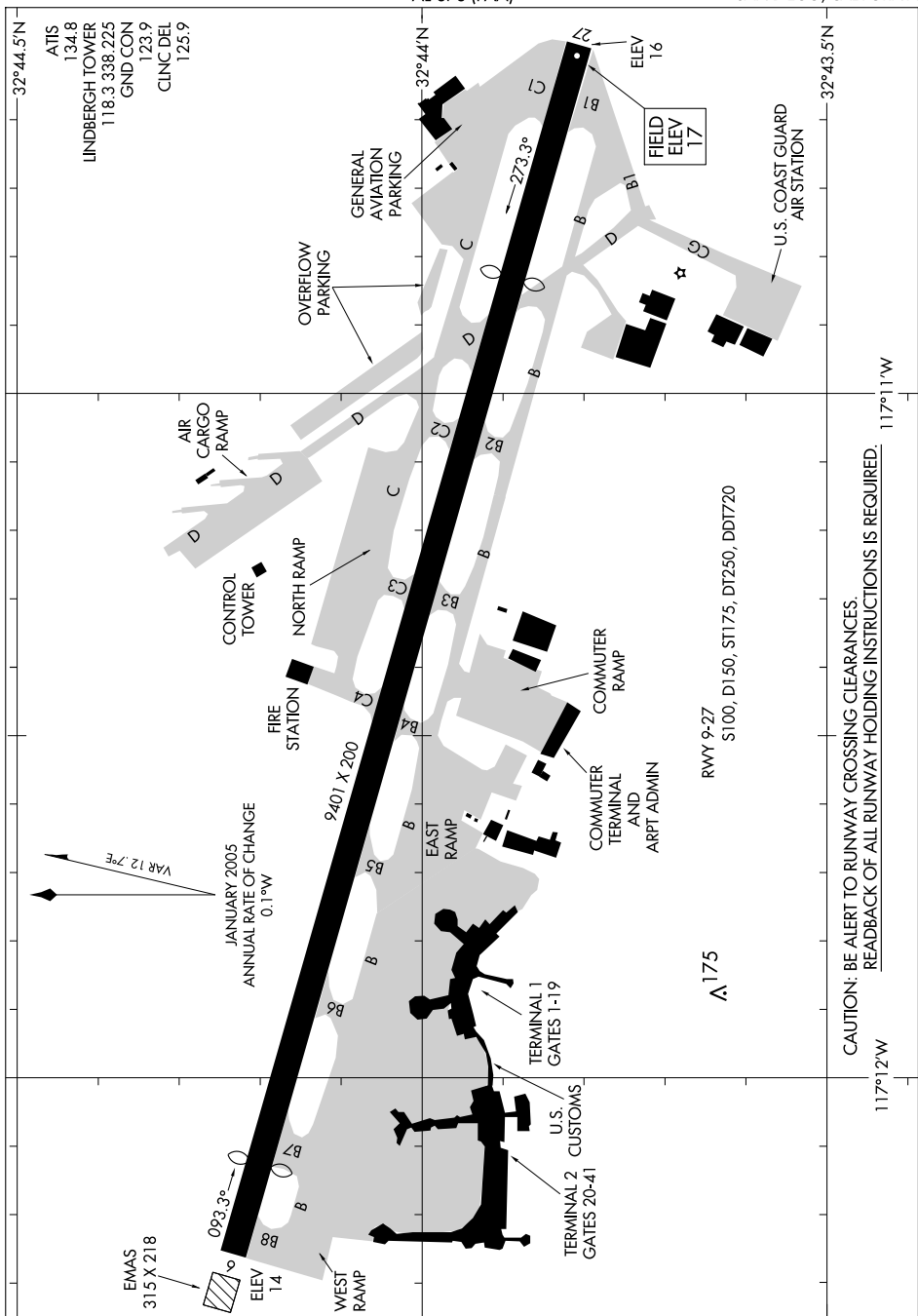
NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

SW-3, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ARRIVAL DESCRIPTION

IMPERIAL TRANSITION (IPL.BARET4): From over IPL VORTAC via IPL R-258 and MZB R-076 to BARET INT. Thence....

NEEDLES TRANSITION (EED.BARET4): From over EED VORTAC via EED R-208 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

PARKER TRANSITION (PKE.BARET4): From over PKE VORTAC via PKE R-227 to SHADI INT, thence via JLI R-040 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to BARET INT. Thence....

TWENTYNINE PALMS TRANSITION (TNP.BARET4): From over TNP VORTAC via TNP R-179 to MOMAR INT, then via JLI R-040 to KARRO DME FIX. Depart KARRO DME heading 190° to intercept PGY R-043 to PGY VORTAC. Thence....

....WHEN SAN ARRIVALS USING RWY 9: Via PGY R-043 to PGY VORTAC, then via PGY R-270 to intercept the OCN R-162, then via OCN R-162 to SARGS INT. Expect ILS Rwy 9 approach to SAN or ILS-A approach to NZY.

....WHEN SAN ARRIVALS USING RWY 27: Via PGY R-043 to intercept I-UBR localizer, then via I-UBR localizer to SWATT INT. Expect LOC Rwy 27 approach to SAN or LOC-A approach to NZY.

LOST COMMUNICATIONS: In the event of lost communications, North Island arrival shall execute the TACAN Rwy 29 or Rwy 36.

BORDER FIVE DEPARTURE

SL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

ATIS 134.8
CLNC DEL 125.9
GND CON 123.9
LINDBERGH TOWER
118.3 338.225
SOCAL DEP CON
RWY 27 125.15 317.55
RWY 9 124.35 279.625

MISSION BAY
117.8 MZB 
Chan 125

JULIAN
114.0 JLI 
Chan 87
N33°08.43' - W116°35.16'
L-4, H-4

IMPERIAL
115.9 IPL 
Chan 106
N32°44.93' - W115°30.51'
L-4, H-4

POGGI
109.8 PGY 
Chan 35
N32°36.62' - W116°58.75'

BROWS
N32°37.87' - W116°46.20'

NOTE: Runway 9- RADAR REQUIRED.

NOTE: Runway 27- DME REQUIRED.

TAKE-OFF MINIMUMS

Rwy 9, 300-1 with minimum climb of 610' per NM to 1900.

Rwy 27, 300-1½ or standard with minimum climb of 317' per NM to 400.

TAKE-OFF NOTES

- Rwy 9: Trees 792 feet from departure end of runway, 142 feet left of centerline, 60' AGL/99' MSL.
Antenna 740 feet from departure end of runway, 302 feet right of centerline, 62' AGL/82' MSL.
Antenna 1946 feet from departure end of runway, 969 feet left of centerline, 126' AGL/192' MSL.
Trees 1377 feet from departure end of runway, 285 feet left of centerline, 80' AGL/135' MSL.
Trees 4625 feet from departure end of runway, 1414 feet left of centerline, 250' AGL/385' MSL.
- Rwy 27: Trees 1 mile from departure end of runway, 685 feet right of centerline, 220' AGL/253' MSL.
Flagpole 2511 feet from departure end of runway, 700 feet left of centerline, 90' AGL/116' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

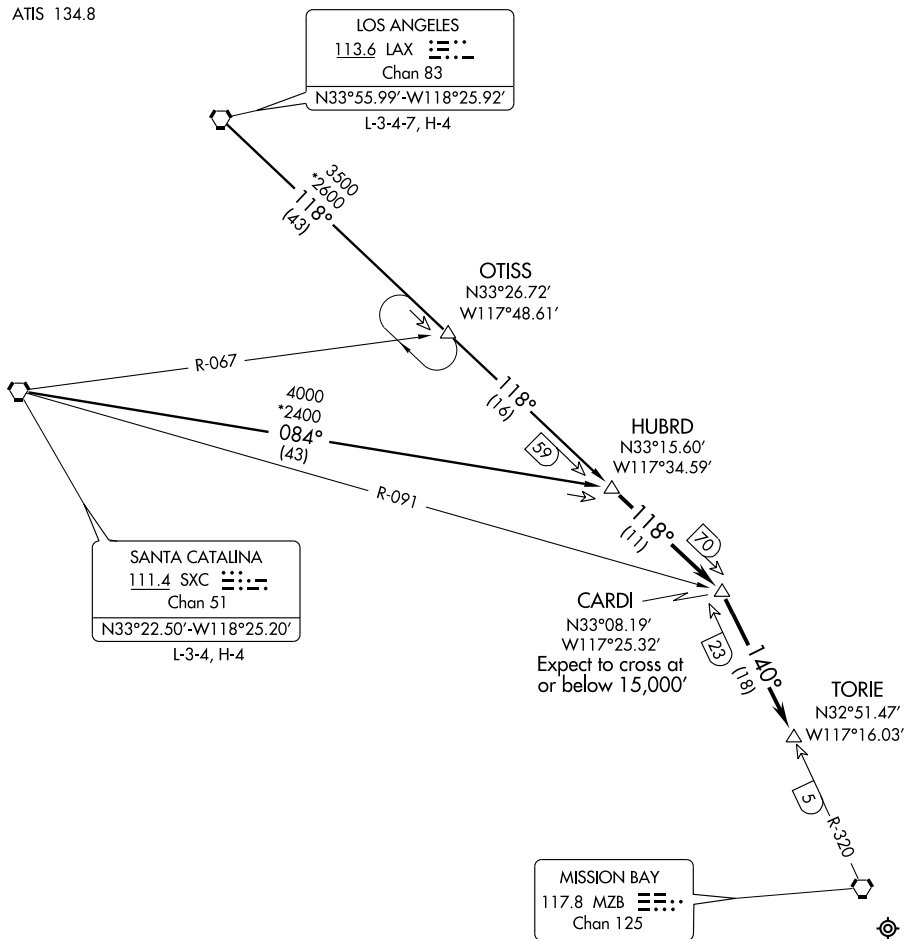
TAKE-OFF RUNWAY 9: Climb via heading 090° to intercept and proceed via MZB R-096 to BROWS INT. Then via (transition) or (assigned route). Maintain assigned altitude.

TAKE-OFF RUNWAY 27: Climb via heading 275° until PGY 19 DME, then turn left via heading 120° to intercept and proceed via PGY R-260 and R-069 to BROWS INT. Then via (transition) or (assigned route). Maintain assigned altitude.

IMPERIAL TRANSITION (BRDR5.IPL): From over BROWS INT via PGY R-069 and IPL R-250 to IPL VORTAC.

JULIAN TRANSITION (BRDR5.JLI): From over BROWS INT via JLI R-182 to JLI VORTAC.

SOCAL APP CON
125.3 290.4
ATIS 134.8



NOTE: Chart not to scale.

LOS ANGELES TRANSITION (LAX.HUBRD1): From over LAX VORTAC via LAX R-118 to OTISS INT, then via LAX R-118 to HUBRD INT. Thence . . .

SANTA CATALINA TRANSITION (SXC.HUBRD1): From over SXC VORTAC via SXC R-084 to HUBRD INT. Thence . . .

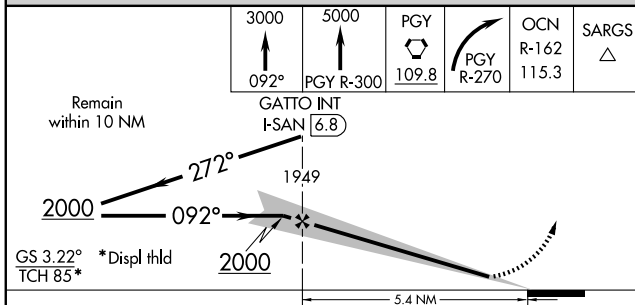
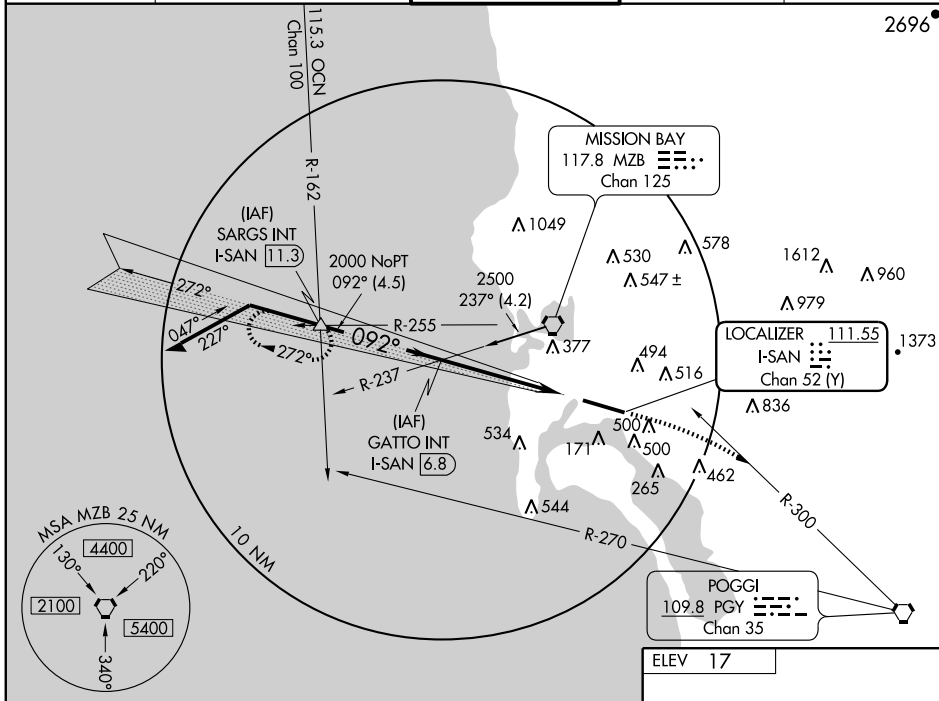
. . . From over HUBRD INT via LAX R-118 to CARDI FIX via MZB R-320 to TORIE FIX. Expect vector to final approach course.

LOC/DME I-SAN	APP CRS	Rwy Idg TDZE	8701
111.55	092°	17	
Chan 52 (Y)		Apt Elev	17

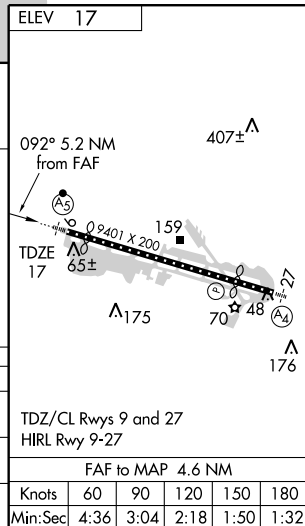
ILS or LOC RWY 9 SAN DIEGO INTL (SAN)

INOPERATIVE Inoperative table does not apply.	MALSR	MISSED APPROACH: Climb to 3000 via heading 092° until intercepting PGY R-300, then continue climb to 5000 via PGY R-300 to PGY VORTAC. Then right turn via PGY R-270 to intercept OCN R-162 to SARGs Int and hold.
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ATIS 134.8	SOCAL APP CON 119.6 363.1 WEST 124.35 279.625 EAST	LINDBERGH TOWER 118.3 338.225	GND CON 123.9	CLNC DEL 125.9
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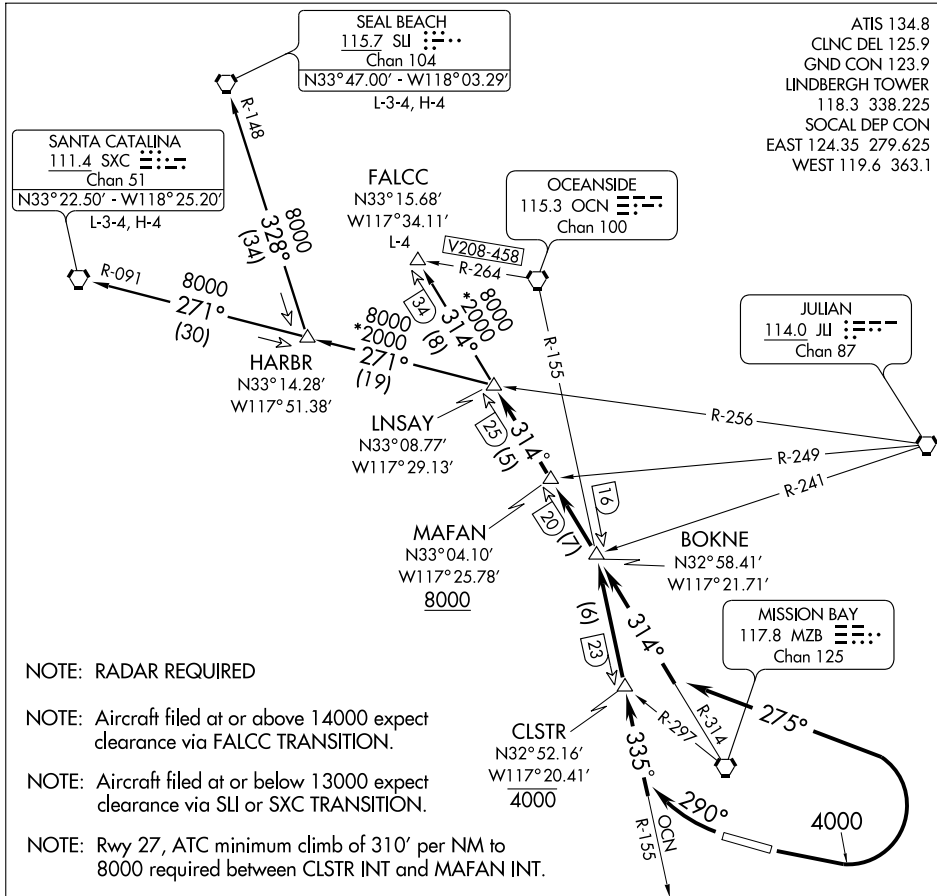


CATEGORY	A	B	C	D
S-ILS 9	353/50 336 (400-1)			
S-LOC 9	540/50	526 (600-1)	540-1½ 526 (600-1½)	540-1¾ 526 (600-1¾)
CIRCLING	820-1 803 (900-1)	820-1¼ 803 (900-1¼)	820-2¼ 803 (900-2¼)	820-2½ 803 (900-2½)



LNSAY TWO DEPARTURE

SL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

TAKE-OFF MINIMUMS

Rwy 9, 300-1 with minimum climb of 610' per NM to 1900.

Rwy 27, 300-1½ or standard with minimum climb of 317' per NM to 400.

TAKE-OFF NOTES

- Rwy 9: Trees 792 feet from departure end of runway, 142 feet left of centerline, 60' AGL/99' MSL.
Antenna 740 feet from departure end of runway, 302 feet right of centerline, 62' AGL/82' MSL.
Antenna 1946 feet from departure end of runway, 969 feet left of centerline, 126' AGL/192' MSL.
Trees 1377 feet from departure end of runway, 285 feet left of centerline, 80' AGL/135' MSL.
Trees 4625 feet from departure end of runway, 1414 feet left of centerline, 250' AGL/385' MSL.
- Rwy 27: Trees 1 mile from departure end of runway, 685 feet right of centerline, 220' AGL/253' MSL.
Trees 3118 feet from departure end of runway, 846 feet right of centerline, 120' AGL/149' MSL.
Flagpole 2511 feet from departure end of runway, 700 feet left of centerline, 90' AGL/116' MSL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-3, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climb runway heading to 4000', then turn left via heading 275° to intercept and proceed via MZB R-314 to MAFAN INT. Thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn via heading 290° to intercept and proceed via OCN R-155 to CLSTR INT. Cross CLSTR INT at or below 4000', then via OCN R-155 and MZB R-314 to MAFAN INT. Thence. . . .

.....cross MAFAN INT at or above 8000', then via MZB R-314 to LNSAY INT. Then via (transition) or (assigned route). Maintain assigned altitude.

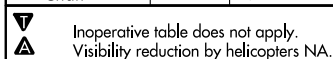
FALCC TRANSITION (LNSAY2.FALCC): From over LNSAY INT via MZB R-314 to FALCC INT.

SANTA CATALINA TRANSITION (LNSAY2.SXC): From over LNSAY INT via SXC R-091 to SXC VORTAC.

SEAL BEACH TRANSITION (LNSAY2.SLI): From over LNSAY INT via SXC R-091 and SLI R-148 to SLI VORTAC.

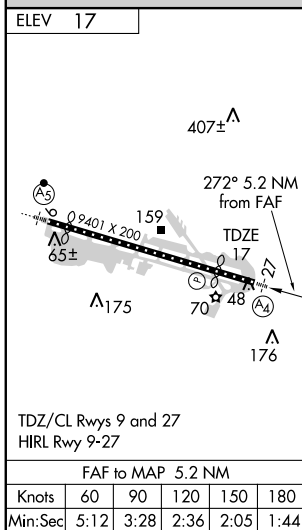
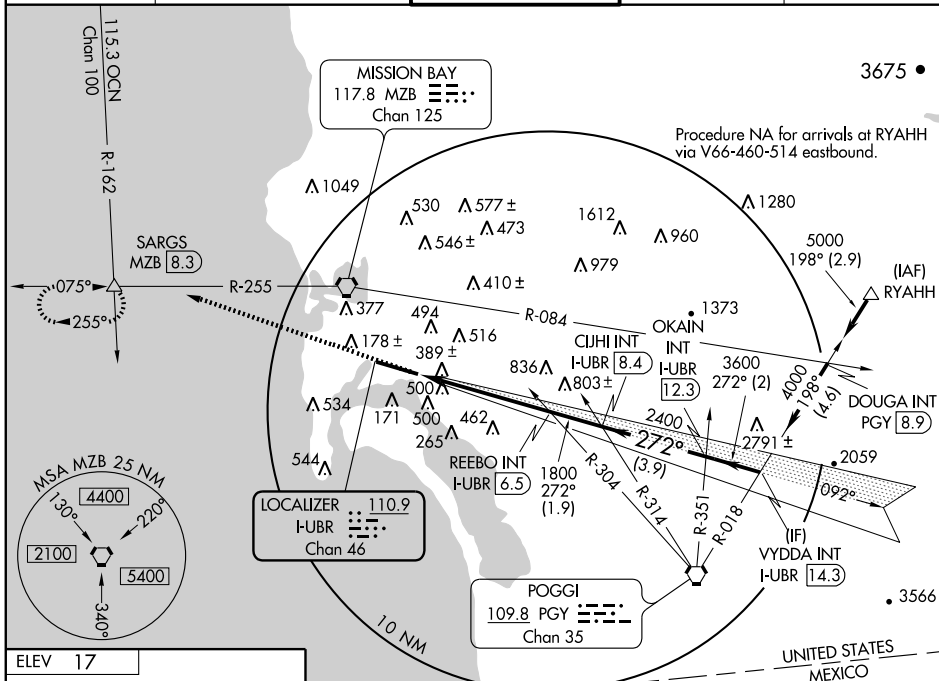
LOC/DME I-UBR 110.9 Chan 46	APP CRS 272°	Rwy Idg 7591 TDZE 17 Apt Elev 17
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LOC RWY 27
SAN DIEGO INTL (SAN)

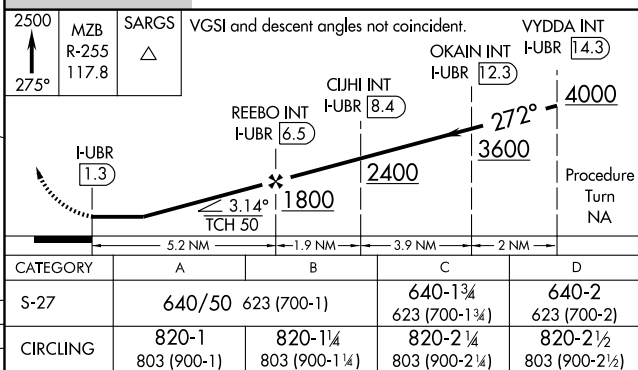


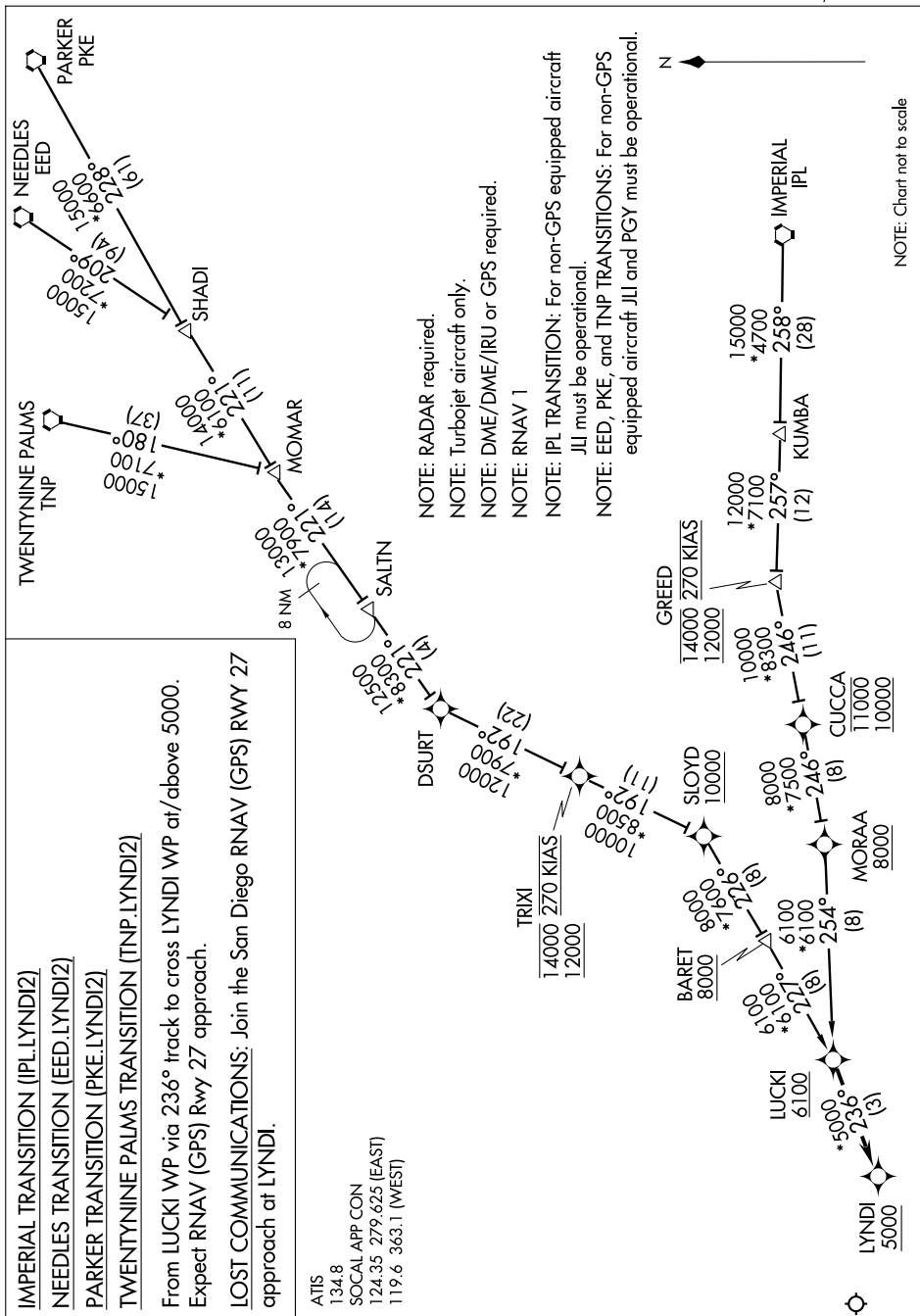
MISSED APPROACH: Climb to 2500 via heading 275° and MZB VORTAC R-255 to SARGS INT/8.3 DME and hold.

ATIS 134.8	SOCAL APP CON 119.6 363.1 WEST 124.35 279.625 EAST	LINDBERGH TOWER 118.3 338.225	GND CON 123.9	CLNC DEL 125.9
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SW-3. 14 JAN 2010 to 11 FEB 2010





PEBLE THREE DEPARTURE

SL-373 (FAA)

SAN DIEGO INTL (SAN)
SAN DIEGO, CALIFORNIA

ATIS 134.8
CLINC DEL
125.9
GND CON
123.9
LINDBERGH TOWER
118.3 338.225
SOCAL DEP CON
WEST 119.6 363.1

SEAL BEACH
115.7 SLI
Chan 104
N33°47.00' - W118°03.29'
L-3-4, H-4

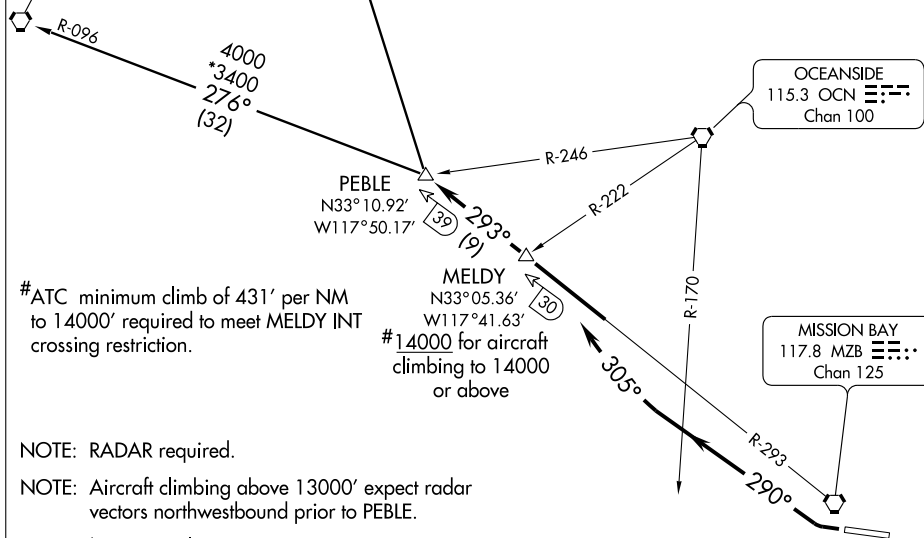
SANTA CATALINA
111.4 SXC
Chan 51
N33°22.50' - W118°25.20'
L-3-4, H-4

TAKE-OFF MINIMUMS

Rwy 9: NA-ATC operations.

Rwy 27: 300-1½ or standard with minimum climb of 317' per NM to 400.

NOTE: Rwy 27: Trees 1 mile from departure end of rwy, 685' right of centerline, 220' AGL/253' MSL. Trees 3118' from departure end of rwy, 846' right of centerline, 120' AGL/149' MSL. Flagpole 2511' from departure end of rwy, 700' left of centerline, 90' AGL/116' MSL.



DEPARTURE ROUTE DESCRIPTION

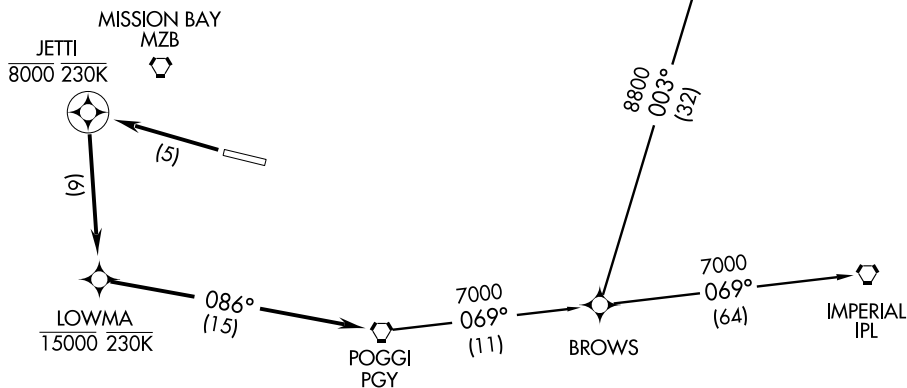
TAKE-OFF RUNWAY 27: Climbing right turn via heading 290° until crossing OCN VORTAC R-170, then turn right via heading 305° to intercept and proceed via MZB VORTAC R-293 to PEBLE INT. Aircraft climbing to 14000' or above, cross MELDY INT at or above 14000'. Then via (transition) or (assigned altitude). Maintain assigned altitude.

SANTA CATALINA TRANSITION (PEBLE3.SXC): From over PEBLE INT via SXC R-096 to SXC VORTAC.

SEAL BEACH TRANSITION (PEBLE3.SLI): From over PEBLE INT via SLI R-148 to SLI VORTAC.

POGGI TWO DEPARTURE (RNAV)

ATIS 134.8
CLINC DEL 125.9
GND CON 123.9
LINDBERGH TOWER
118.3 338.225
SOCAL DEP CON
125.15 317.55



NOTE: DME/DME/IRU or GPS required.

NOTE: Imperial Transition: For Non-GPS equipped aircraft PGY, MZB, JLI VORTACs must be operational.

NOTE: Julian Transition: For Non-GPS equipped aircraft PGY VORTAC must be operational.

NOTE: RNAV 1.

NOTE: RADAR REQUIRED.

NOTE: Do not exceed 230 KIAS until LOWMA.

TAKE-OFF MINIMUMS

Rwy 9, NA-ATC.

Rwy 27, Standard with minimum ATC climb of 400' per NM to 520 and minimum obstacle climb of 317' per NM to 1600.

TAKE-OFF OBSTACLE NOTES

Rwy 27: Multiple trees, flag pole, light pole, and obstruction lights beginning at 287' from DER, 1985' left to 1577' right of centerline, up to 116' AGL/269' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 27: Climb direct to cross JETI at or below 8000, then climbing left turn direct to cross LOWMA at or below 15000, then via 086° track to POGGI VORTAC, Thence....

....via (transition). Maintain 15000 or as assigned by ATC, expect filed altitude 10 minutes after departure.

IMPERIAL TRANSITION (POGGI2.IPL)

JULIAN TRANSITION (POGGI2.JLI)

▼

▲

Inoperative table does not apply to Cats A/B.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MALS R

MISSED APPROACH: Climb to 3000 via 092° course to FICWO WP then via 116° course to PGY VORTAC, then right turn direct CAPUS WP and hold.

ATIS 134.8	SOCAL APP CON 119.6 363.1 WEST 124.35 279.625 EAST	LINDBERGH TOWER 118.3 338.225	GND CON 123.9	CLNC DEL 125.9
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ELEV 17

TDZ/CL Rwy 9 and 27
HIRL Rwy 9-27

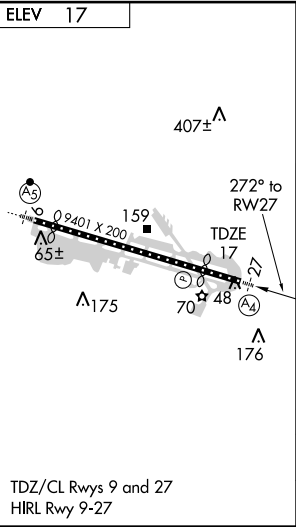
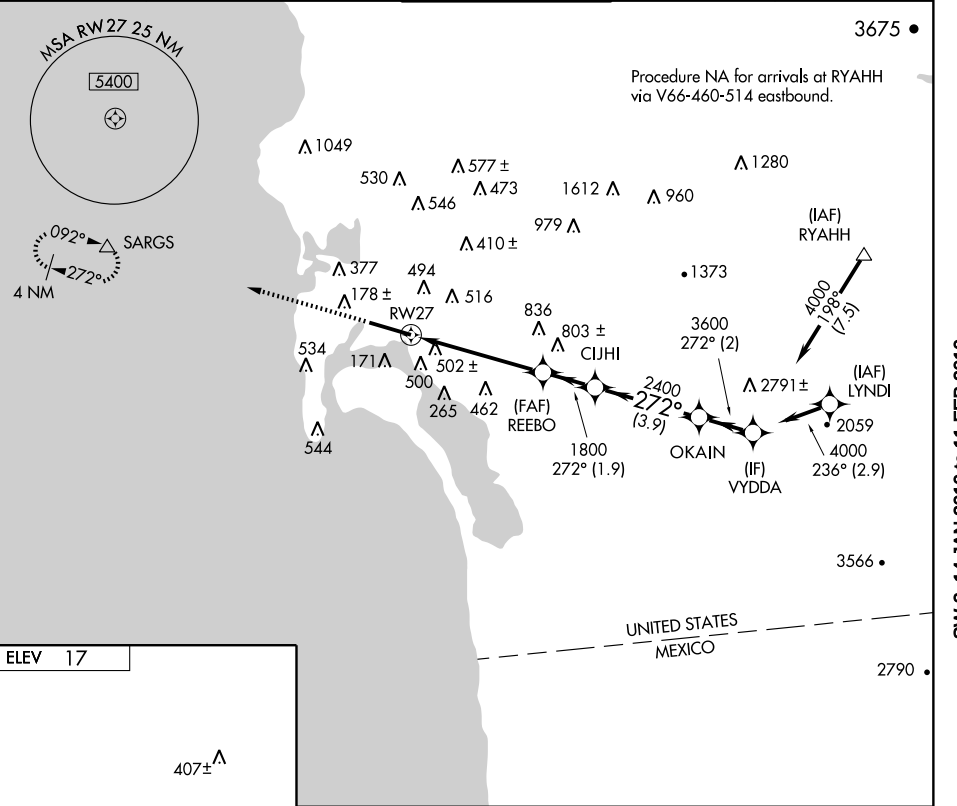
	3000 FICWO PGY CAPUS
	BADME GATTO RWY 09
Procedure Turn NA	2000 092° 1800 3.04° TCH 55
CATEGORY	A B C D
LNNAV MDA	600/50 583 (600-1) 600/60 583 (600-1½)
CIRCLING	820-1 803 (900-1) 820-1¼ 803 (900-1¼) 820-2¼ 803 (900-2¼) 820-2½ 803 (900-2½)

SW-3. 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	7591
272°	TDZE	17
	Apt Elev	17

▼ NA	Inoperative table does not apply. Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.	MALS A4 — ≡	MISSED APPROACH: Climb to 2500 direct SARGS and hold.
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ATIS	SOCAL APP CON	LINDBERGH TOWER	GND CON	CLNC DEL
134.8	119.6 363.1 WEST	118.3 338.225	123.9	125.9
	124.35 279.625 EAST			

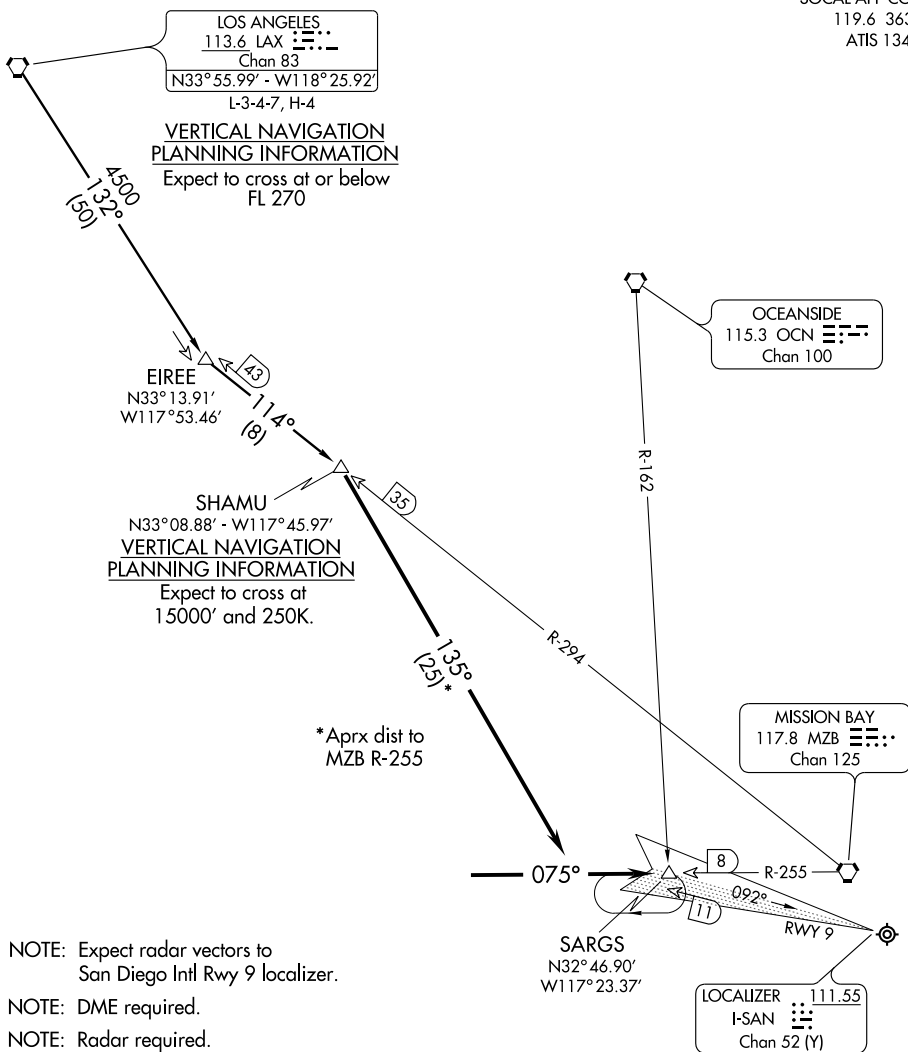


2500	SARGS	VGSI and descent angles not coincident.				VYDDA
	△					
		REEBO	CIJHI	OKAIN		
		1800	2400	3600	4000	
		5.2 NM	1.9 NM	3.9 NM	2 NM	Procedure Turn NA
CATEGORY	A	B	C	D		
LNAV MDA	760/50 743 (800-1)	760/60 743 (800-1¼)	760-2¼ 743 (800-2¼)	760-2½ 743 (800-2½)		
CIRCLING	820-1 803 (900-1)	820-1¼ 803 (900-1¼)	820-2¼ 803 (900-2¼)	820-2½ 803 (900-2½)		

SOCAL APP CON

119.6 363.1

ATIS 134.8

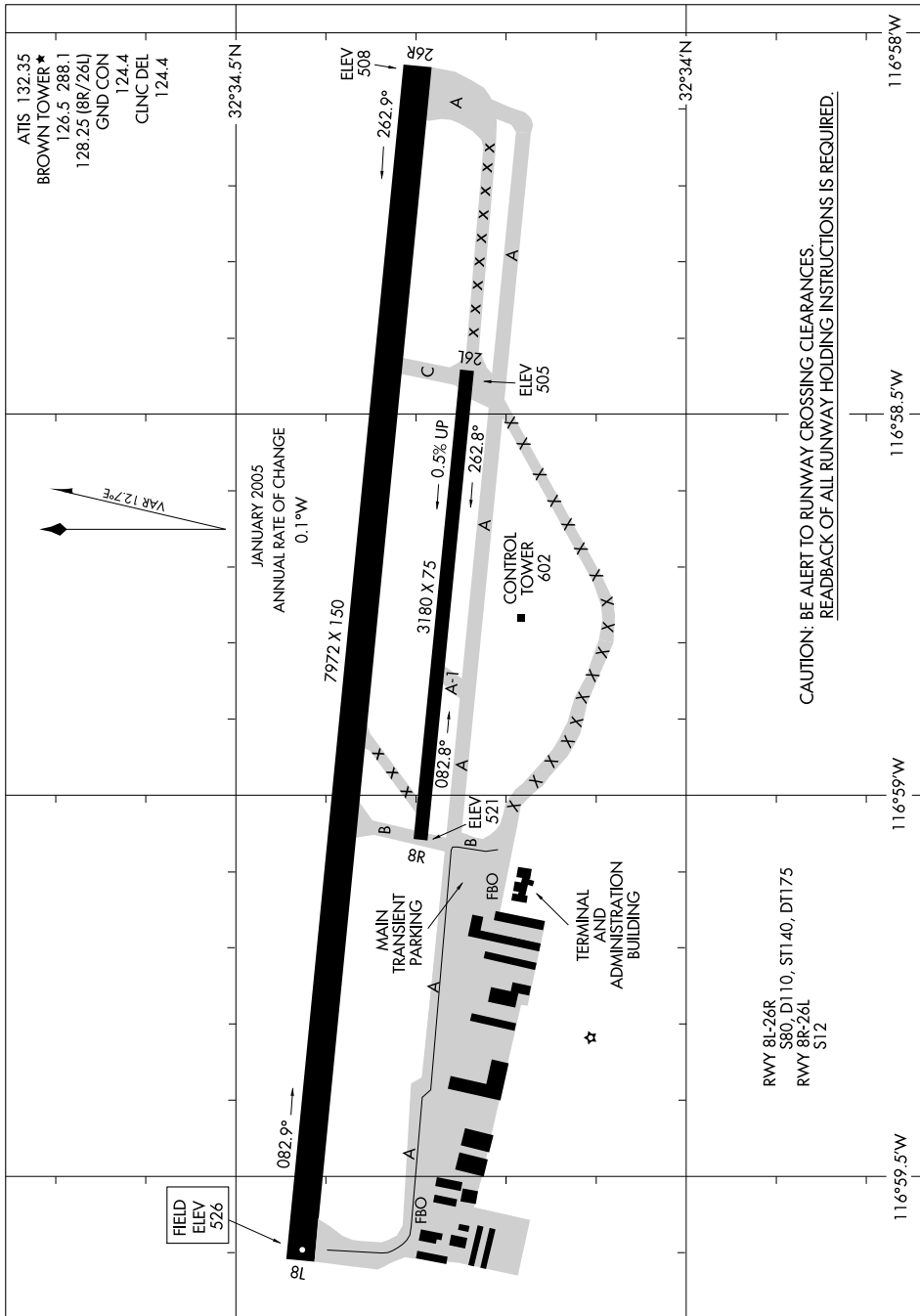


LOS ANGELES TRANSITION (LAX.SHAMU1): From over LAX VORTAC via LAX R-132 and MZB R-294 to SHAMU FIX. Thence....

....From over SHAMU FIX via heading 135° to intercept MZB R-255 then via MZB R-255 to SARGs INT. Expect radar vectors to SAN Rwy 9 localizer.

AIRPORT DIAGRAM

AL-5814 (FAA)

SAN DIEGO / BROWN FIELD MUNI (SDM)
SAN DIEGO, CALIFORNIA

SW-3. 14 JAN 2010 to 11 FEB 2010

▼

DME/DME RNP -0.3 NA.

▲

Circling NA south of Rwy 8R-26L.

If local altimeter setting not received, use San Diego Intl altimeter setting and increase all MDAs 120 feet.

VDP NA when using San Diego Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 direct LUGJA and hold.

ATIS 132.35	SOCAL APP CON 124.35 279.625	BROWN TOWER ★ 126.5 (CTAF) 288.1 128.25 (8R/26L)	GND CON 124.4	CLNC DEL 124.4	UNICOM 122.95
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Procedure NA for arrivals at MZB VORTAC via V317 northwest bound.

5 NM Holding Pattern

LUGJA

YAPKI

3000

277°

097°

097°

097°

2300

082°

0.6 NM to UGOYA

UGOYA

3.05° TCH 50

7.6 NM

4.2 NM

0.6

0.5

CATEGORY	A	B	C	D
LNAV MDA	940-1	414 (500-1)	940-1¼	414 (500-1¼)
CIRCLING	980-1 454 (500-1)	1020-1 494 (500-1)	1020-1½ 494 (500-1½)	1080-2 554 (600-2)

ELEV 526

7972 X 150

0.5% UP

3180 X 75

26L

26R

602

TDZE 526

MIRL Rwy 8L-26R

SW-3. 14 JAN 2010 to 11 FEB 2010

▼

▲

When control tower closed, use San Diego Intl altimeter setting minimums.
Circling not authorized south of runway 8R-26L.

MISSED APPROACH: Climbing right turn to 4000 direct MZB VORTAC and hold.

ATIS 132.35	SOCAL APP CON 124.35 279.625	BROWN TOWER ★ 126.5 (CTAF) 288.1 128.25 (8R/26L)	GND CON 124.4	CLNC DEL 124.4	UNICOM 122.95
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MISSION BAY 117.8 MZB Chan 125

256° 4000 076° (10.7) R-076

R-102

FINLE INT PGY 4.4

POGGI 109.8 PGY Chan 35

156° 2400 159° 2.3 NM

10 NM

A 1345

A 2791 ± 2059

4187 2801 3836 3760 3339 3566 3885 2790

UNITED STATES MEXICO

MSA PGY 25 NM

180° 090° 270° 360°

4700 7600 2500 5300

HAILE PGY 10.3	FINLE INT PGY 4.4	4000	MZB 117.8	
Procedure Turn NA		156°	2400	
5.9 NM		4.4 NM	VORTAC	
Fly Visual 157° 2.3 NM				
CATEGORY	A	B	C	D
CIRCLING	1220-2¾ 696 (700-2¾)			
SAN DIEGO INTL ALTIMETER SETTING MINIMUMS				
CIRCLING	1340-2¾ 816 (900-2¾)			

ELEV 524

157° 2.3 NM

Fly Visual

78 98 102 26R

7972 X 150

3180 X 75

602

0.5% UP

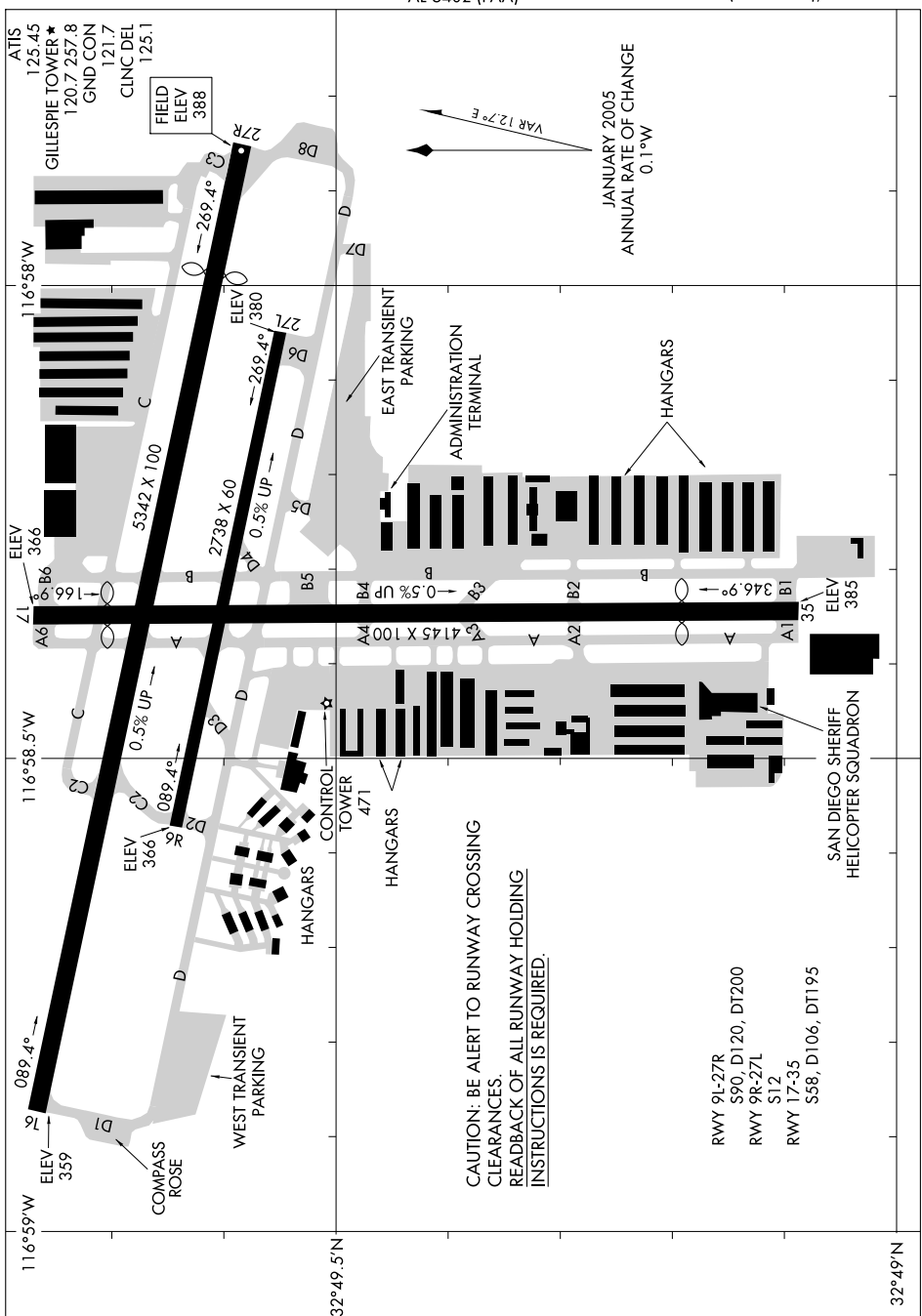
MIRL Rwy 8L-26R

SW-3. 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-5402 (FAA)

SAN DIEGO/GILLESPIE FIELD (SEE)
SAN DIEGO (EL CAJON), CALIFORNIA



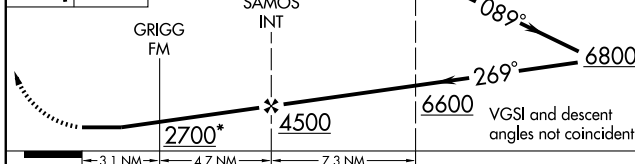
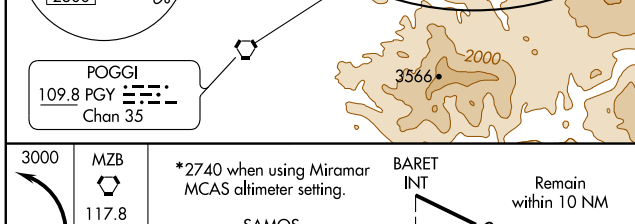
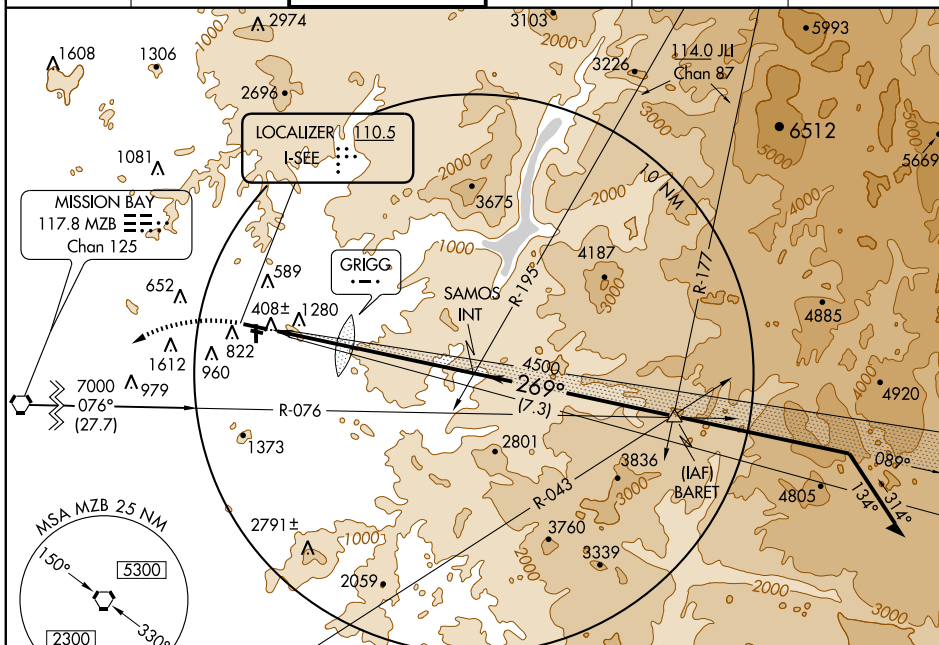
SW-3, 14 JAN 2010 to 11 FEB 2010

LOC I-SEE 110.5	APP CRS 269°	Rwy Idg TDZE Apt Elev	N/A N/A 387
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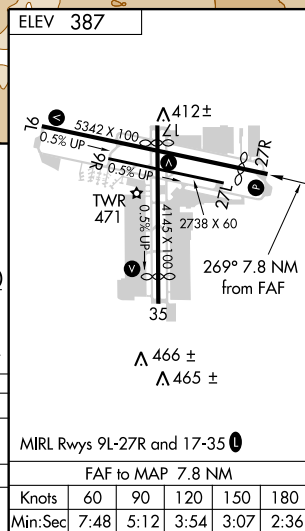
⚠ Circling not authorized NE of Rwy 17 and 27R.
⚠ When control tower closed use Miramar MCAS, CA
 altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing left turn to 3000 direct to
 MZB VORTAC.

ATIS 125.45	SOCAL APP CON 124.35 279.625	GILLESPIE TOWER★ 120.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 125.1	UNICOM 123.05
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CATEGORY	A	B	C	D
CIRCLING	2700-1 ¼ 2313 (2400-1 ¼)	2700-1 ½ 2313 (2400-1 ½)	2700-3 2313 (2400-3)	
GRIGG FM MINIMUMS				
CIRCLING	1580-1 ¼ 1193 (1200-1 ¼)	1580-1 ½ 1193 (1200-1 ½)	1580-3 1193 (1200-3)	1920-3 1533 (1600-3)



MIRL Rwy 9L-27R and 17-35					
FAF to MAP 7.8 NM					
Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

APP CRS 152°	Rwy Idg TDZE Apt Elev	3695 379 388
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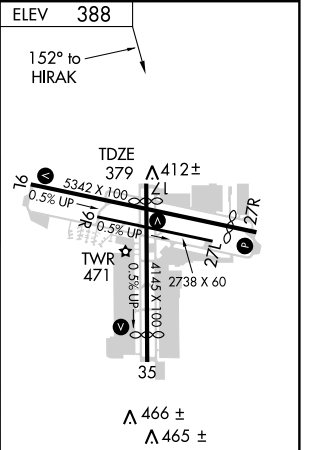
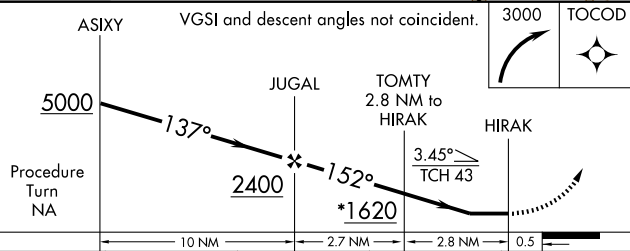
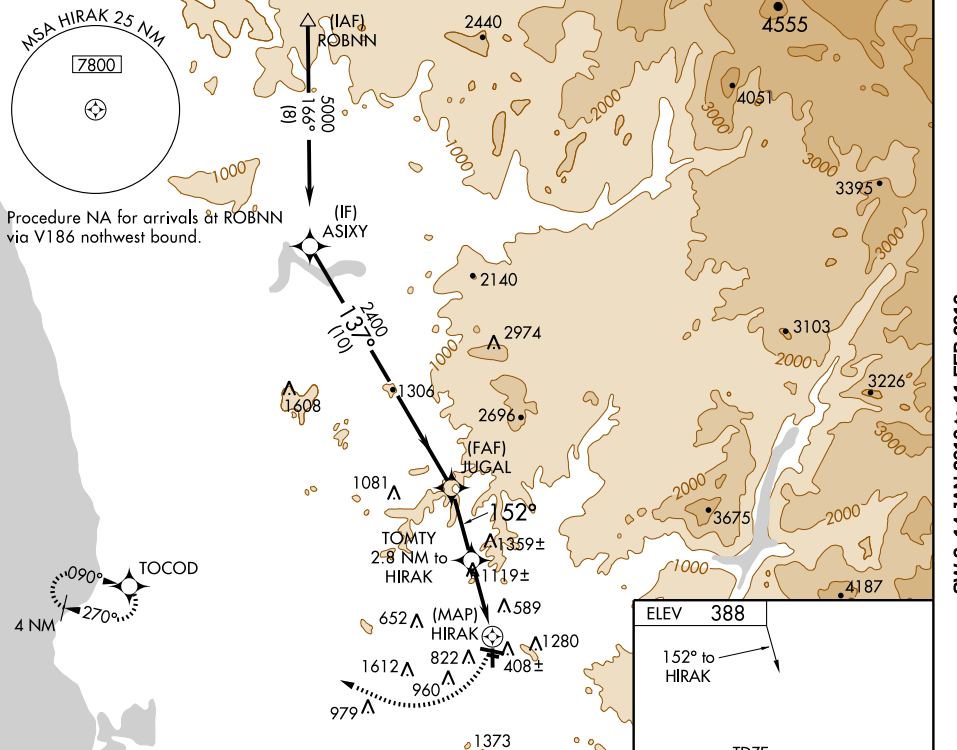
▼

▲

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Miramar MCAS altimeter setting and increase all MDA 40 feet.
*1660 when using Miramar MCAS altimeter setting.
LNAV MDA Cat D minima NA when using Miramar MCAS altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 direct TOCOD and hold.

ATIS 125.45	SOCAL APP CON 124.35 279.625	GILLESPIE TOWER★ 120.7 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 125.1	UNICOM 123.05
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CATEGORY	A	B	C	D
LNAV MDA	1440-1¼ 1061 (1100-1¼)	1440-1½ 1061 (1100-1½)	1440-3 1061 (1100-3)	
CIRCLING	1440-1¼ 1052 (1100-1¼)	1440-1½ 1052 (1100-1½)	1440-3 1052 (1100-3)	1520-3 1132 (1200-3)

MIRL Rwy 9L-27R and 17-35

SW-3, 14 JAN 2010 to 11 FEB 2010

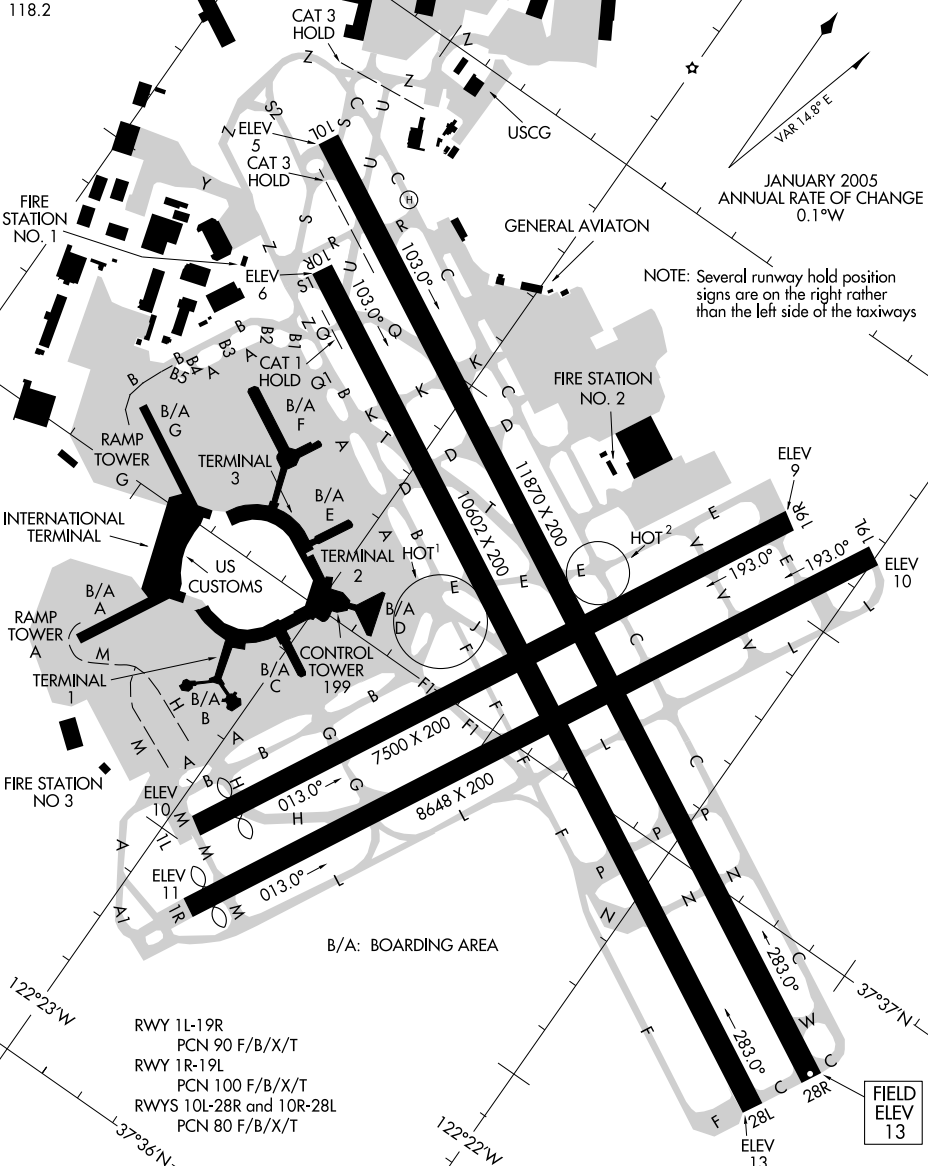
AIRPORT DIAGRAM

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ATIS
113.7 115.8
118.85 135.45
SAN FRANCISCO TOWER
120.5 269.1
GND CON
121.8
CLNC DEL
118.2

CAUTION: BE ALERT TO RUNWAY
CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING
INSTRUCTIONS IS REQUIRED.



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

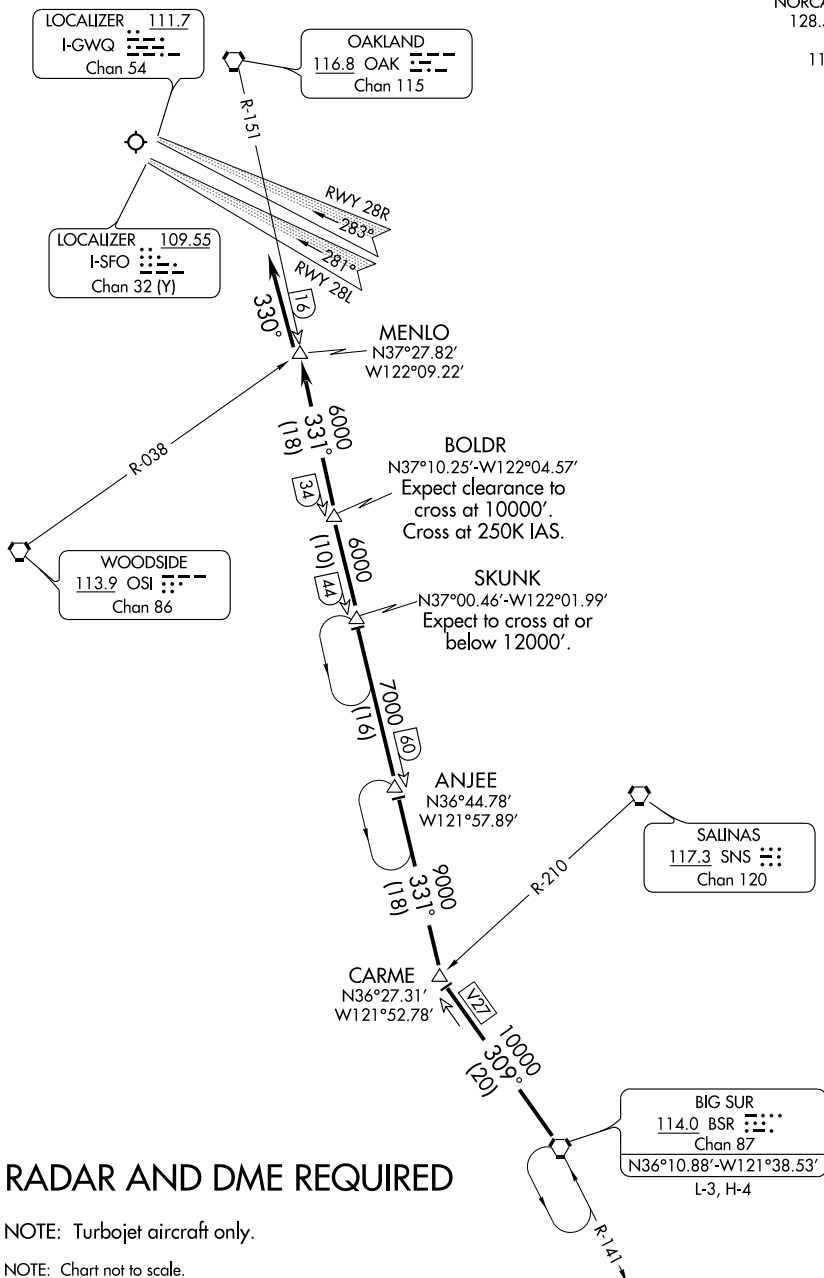
NOTE: Several runway hold position
signs are on the right rather
than the left side of the taxiways

B/A: BOARDING AREA

RWY 1L-19R
PCN 90 F/B/X/T
RWY 1R-19L
PCN 100 F/B/X/T
RWYS 10L-28R and 10R-28L
PCN 80 F/B/X/T

FIELD
ELEV
13

OAKLAND CENTER
125.45 307.3
NORCAL APP CON
128.575 254.25
ATIS
113.7 118.55



RADAR AND DME REQUIRED

NOTE: Turbojet aircraft only.

NOTE: Chart not to scale.

(DUMB6.BARTN) 09127

DUMBARTON SIX DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

SACRAMENTO
115.2 SAC
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3

LINDEN
114.8 LIN
Chan 95
N38°04.47'-W121°00.23'
L-2-3, H-3

OAKLAND
116.8 OAK
Chan 115

SAN FRANCISCO
115.8 SFO
Chan 105

MANTECA
116.0 ECA
Chan 107

ALTAM
N37°48.73'
W121°44.83'

BARTN
N37°32.91'
W122°05.03'

WOODSIDE
113.9 OSI
Chan 86
N37°23.55'-W122°16.88'
L-2-3, H-3

NOTE: Rwy 19L/R departures turn left due to steeply rising terrain to 2000' immediately south of airport.
For obstacle clearance the following minimum climb rates are required:
Rwy 19L, 480' per NM to 1400'.
Rwy 19R, Categories A, B, 480' per NM to 1400';
Categories C, D, 530' per NM to 1800'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via SFO R-090 to BARTN INT, thence via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

LINDEN TRANSITION (DUMB6.LIN): From over BARTN INT via OSI R-028 and LIN R-229 to LIN VORTAC.

RED BLUFF TRANSITION (DUMB6.RBL): From over BARTN INT via OSI R-028 and RBL R-152 to RBL VORTAC.

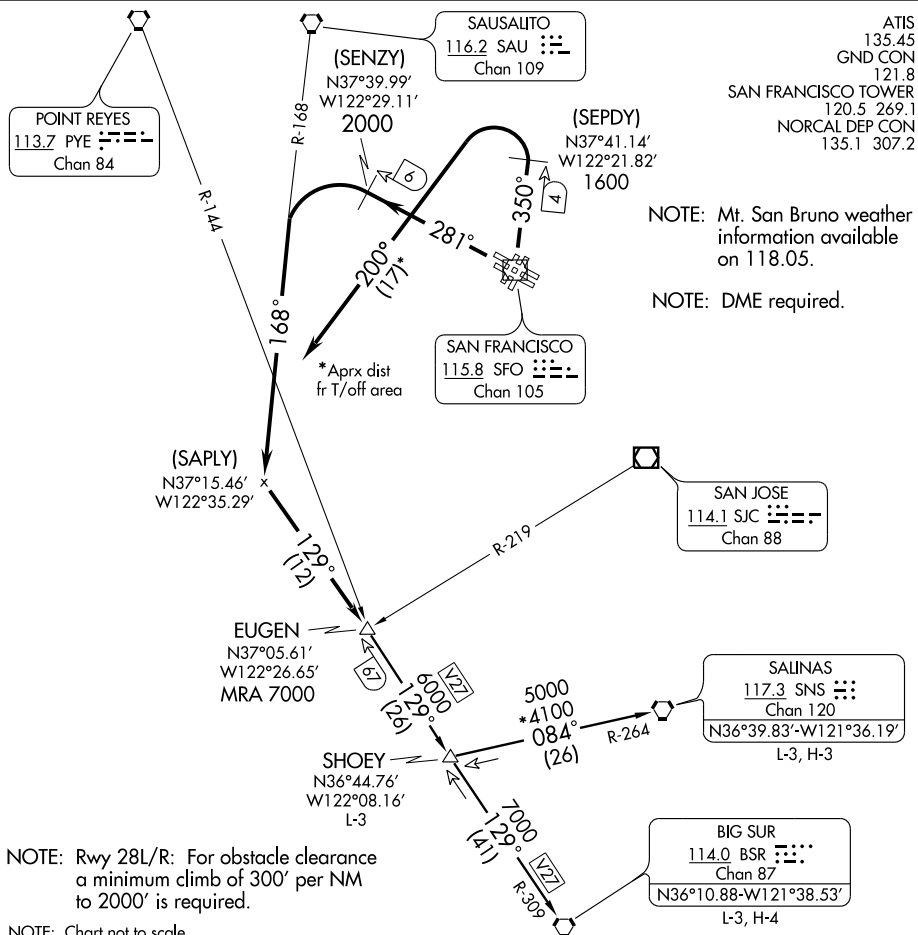
SACRAMENTO TRANSITION (DUMB6.SAC): From over BARTN INT via OSI R-028 and SAC R-177 to SAC VORTAC.

WOODSIDE TRANSITION (DUMB6.OSI): From over BARTN INT via OSI R-028 to OSI VORTAC.

SW-2, 14 JAN 2010 to 11 FEB 2010

EUGEN FIVE DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via SFO R-350, after passing the 4 DME fix and after reaching 1600', turn left heading 200° to intercept and proceed via SAU R-168 and BSR R-309 to EUGEN INT. Thence....

TAKE-OFF RUNWAYS 28L/R: Climb via SFO R-281, after passing 6 DME fix and reaching 2000', turn left to intercept and proceed via SAU R-168 and BSR R-309 to EUGEN INT. Thence....

....via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

BIG SUR TRANSITION (EUGEN5.BSR)

SALINAS TRANSITION (EUGEN5.SNS)

SHOHEY TRANSITION (EUGEN5.SHOHEY)

GAP THREE DEPARTURE

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

SL-375 (FAA)

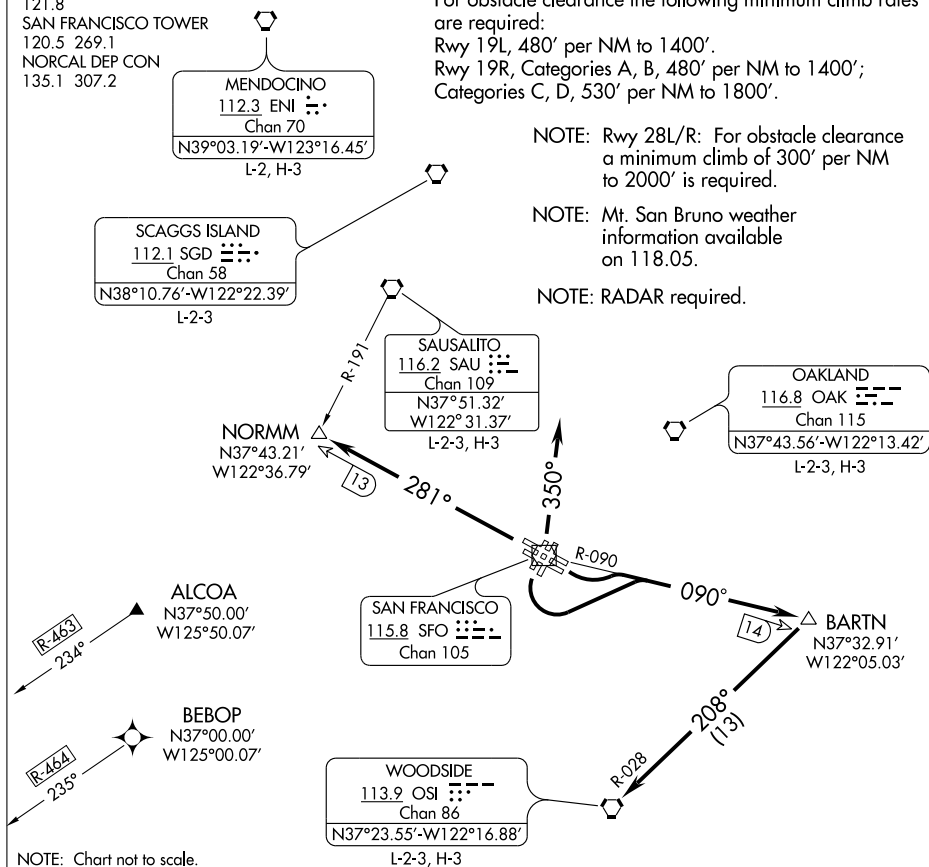
ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2

NOTE: Rws 19L/R departures turn left due to steeply rising terrain to 2000' immediately south of airport.
For obstacle clearance the following minimum climb rates are required:
Rwy 19L, 480' per NM to 1400'.
Rwy 19R, Categories A, B, 480' per NM to 1400';
Categories C, D, 530' per NM to 1800'.

NOTE: Rwy 28L/R: For obstacle clearance a minimum climb of 300' per NM to 2000' is required.

NOTE: Mt. San Bruno weather information available on 118.05.

NOTE: RADAR required.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

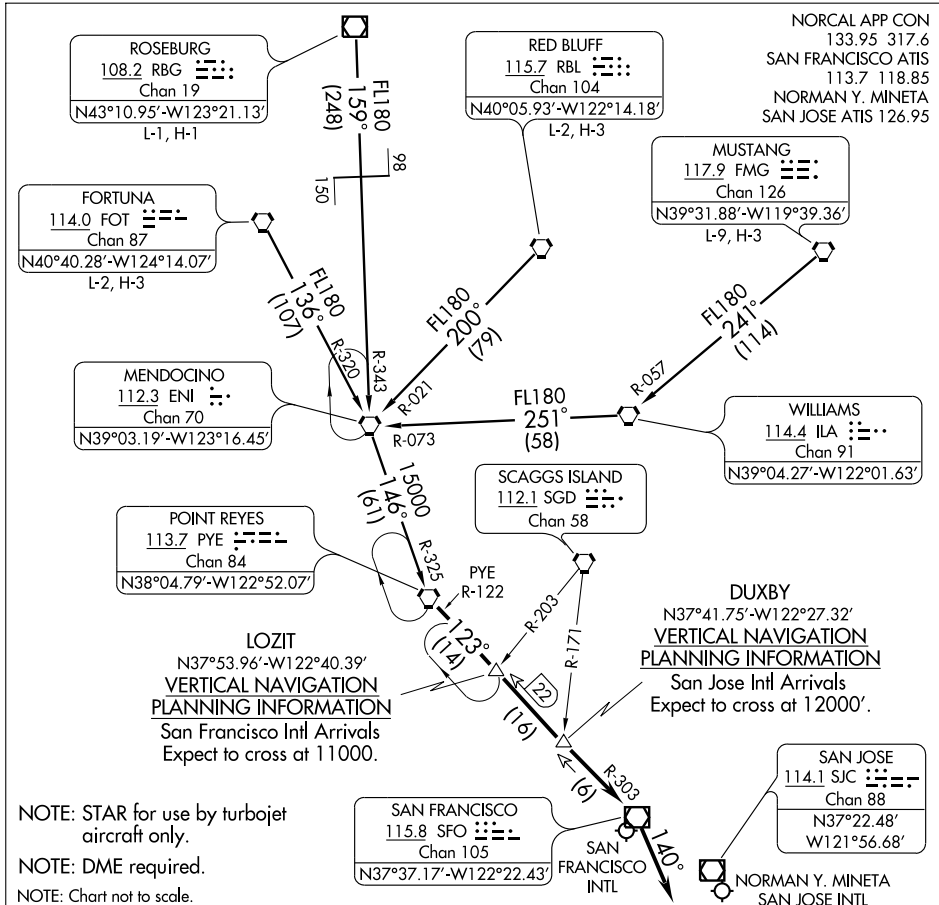
TAKE-OFF RUNWAYS 1L/R: Climb via heading 350° (or as assigned) for vector to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via SFO R-090 and OSI R-028 to OSI VORTAC; expect vector to assigned route/fix after OSI VORTAC. Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Climb via SFO VOR/DME R-281 to NORMM INT; expect vector to assigned route/fix after NORMM INT. Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

ALL RUNWAYS: If not in contact with departure control after reaching 3000', continue climb to assigned altitude and proceed direct to assigned route/fix.



FORTUNA TRANSITION (FOT.GOLDN5): From over FOT VORTAC via FOT R-136 and ENI R-320 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

MUSTANG TRANSITION (FMG.GOLDN5): From over FMG VORTAC via FMG R-241 and ILA R-057 to ILA VORTAC, then via ILA R-251 and ENI R-073 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

RED BLUFF TRANSITION (RBL.GOLDN5): From over RBL VORTAC via RBL R-200 and ENI R-021 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

ROSEBURG TRANSITION (RBG.GOLDN5): From over RBG VOR/DME via RBG R-159 and ENI R-343 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

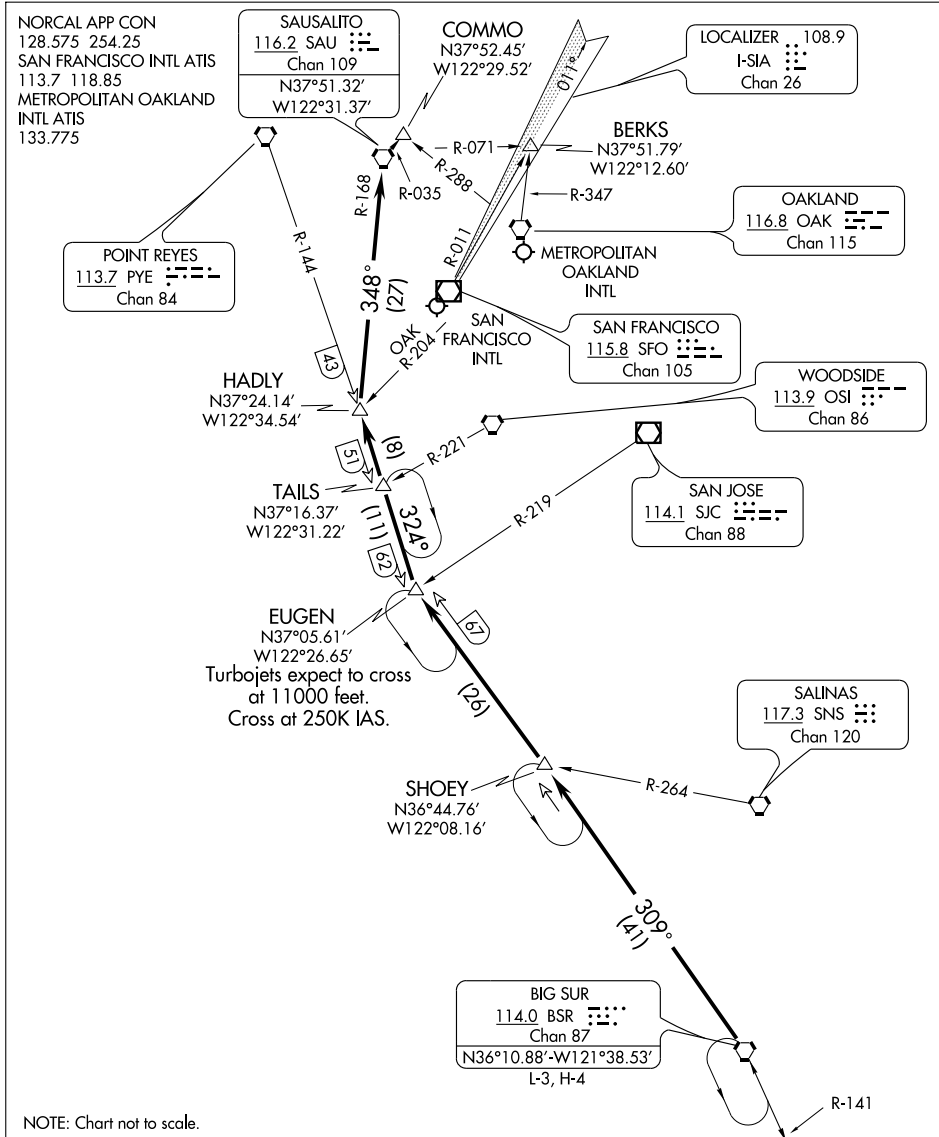
....From over PYE VORTAC via SFO R-303 to SFO VOR/DME, then via heading 140° (MEA 6000). Expect vectors to final approach course.

LOST COMMUNICATIONS: San Jose Intl: After SFO VOR/DME proceed direct SJC VOR/DME. (MEA 6000).

HADLY TWO ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



From over BSR VORTAC via BSR R-309 to EUGEN INT, then via PYE R-144 to HADLY INT, then via direct SAU VORTAC. Expect vectors to final approach course. Expect clearance to cross EUGEN INT at 11000' and at 250K IAS.

LOST COMMUNICATIONS

San Francisco Intl: Depart SAU VORTAC via SAU R-071 to BERKS INT.

Metropolitan Oakland Intl: Depart SAU VORTAC via SAU R-035 to COMMO INT.

LOC/DME I-SIA 108.9 Chan 26	APP CRS 191°	Rwy 19L Idg 8648 TDZE 11 Apt Elev 13	Rwy 19R Idg 7500 TDZE 10 Apt Elev 13
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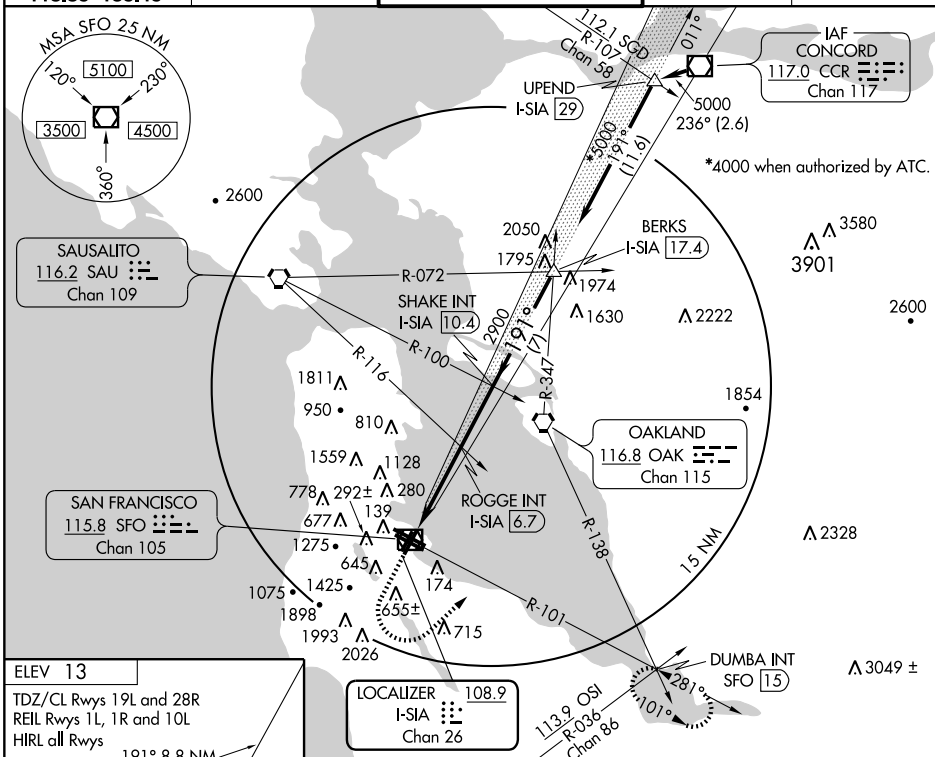
ILS or LOC RWY 19L
SAN FRANCISCO INTL (SFO)

T Inoperative table does not apply.

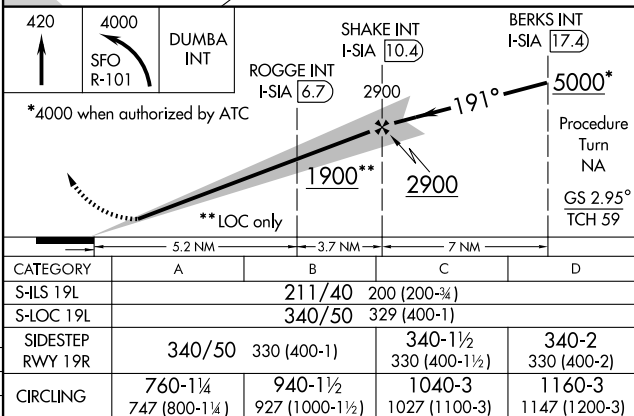
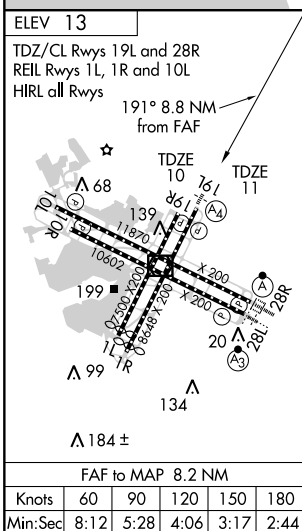
SSALS
Rwy 19L
A4-III-

MISSED APPROACH: Climb to 420 then climbing left turn to 4000 via SFO VOR/DME R-101 to DUMBA Int and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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SW-2. 14 JAN 2010 to 11 FEB 2010



LOC/DME I-SFO	APP CRS	Rwy 28L Idg	Rwy 28R Idg
109.55	281°	10602	11870
Chan 32 (Y)		13	13
		Apt Elev	Apt Elev
		13	13

⚠ Inoperative table does not apply to sidestep 28R Cat A and B. Disregard IM and MM indications.

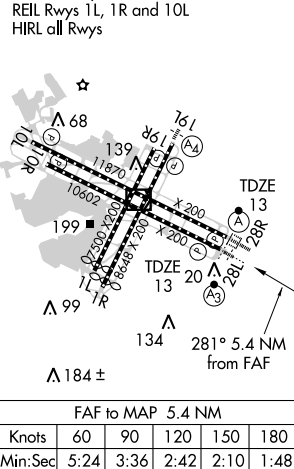
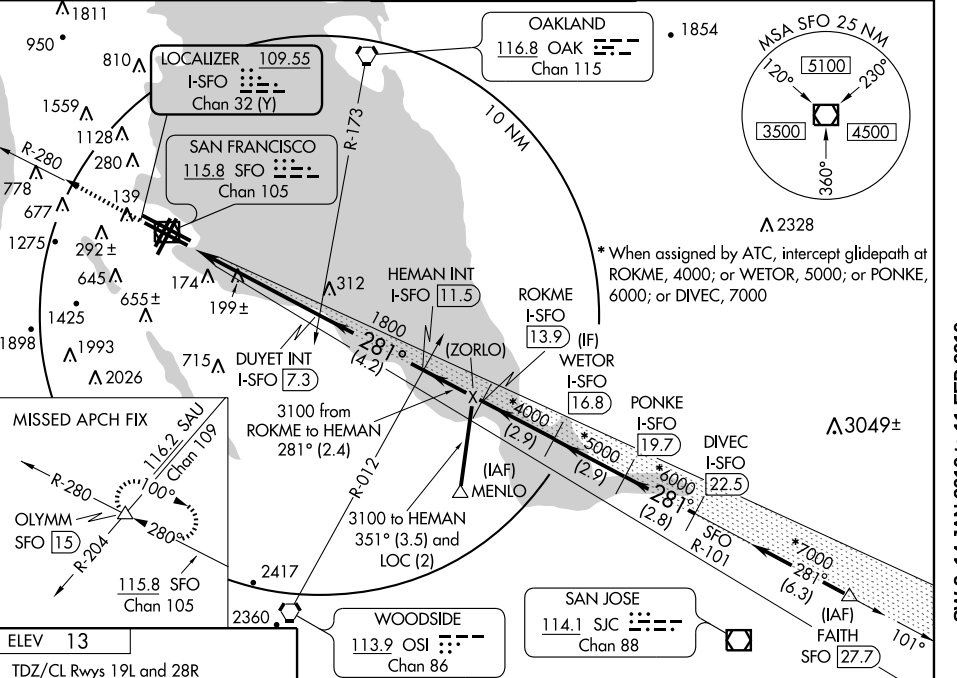
#RVR 1800 authorized with the use of FD or AP or HUD to DA.

SSALR Rwy 28L

ALSIF-2 Rwy 28R

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 via heading 285° and SFO VOR/DME R-280 to OLYMM INT 1.5 DME and hold.

ATIS	NORCAL APP CON	SAN FRANCISCO TOWER	GND CON	CLNC DEL
113.7 115.8				
118.85 135.45	134.5 338.2	120.5 269.1	121.8	118.2



▼ Inoperative table does not apply to Sidestep Rwy 28L Cat A and Cat B.

▲ For inoperative SSALR, increase Sidestep R28L Cat C visibility to RVR 6000.

ALSF-2 Rwy 28R

SSALR Rwy 28L

MISSED APPROACH: Climb to 600, then climbing left turn to 3000 via heading 281° and SFO VOR/DME R-279 to VIKYU Int/SFO 12 DME and hold. #

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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	Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48	

ELEV 13	TDZ/CL Rws 19L and 28R REIL Rws 1L, 1R and 10L HIRL all Rws	600 3000 281°	SFO R-279 115.8	VIKYU INT	AXMUL INT I-GWQ 7.4	CEPIN INT I-GWQ 12	DUMBA INT I-GWQ 16.1	One Minute Holding Pattern
		I-GWQ 2.1						
		1800 283° 103° 4100 VGSi and ILS glidepath not coincident GS 3.00° TCH 55						
		0.1 5.2 NM 4.6 NM 4.2 NM						
		CATEGORY	A		B		C	D
		S-ILS 28R	213/18		200 (200-½)			
		S-LOC 28R	460/24	447 (500-½)		460/40 447 (500-¾)	460/50 447 (500-1)	
		SIDESTEP RWY 28L	460/50		447 (500-1)		460-1½ 447 (500-1½)	
		CIRCLING	760-1 747 (800-1)	940-1¼ 927 (1000-1¼)		1040-3 1027 (1100-3)	1160-3 1147 (1200-3)	

SW-2: 14 JAN 2010 to 11 FEB 2010

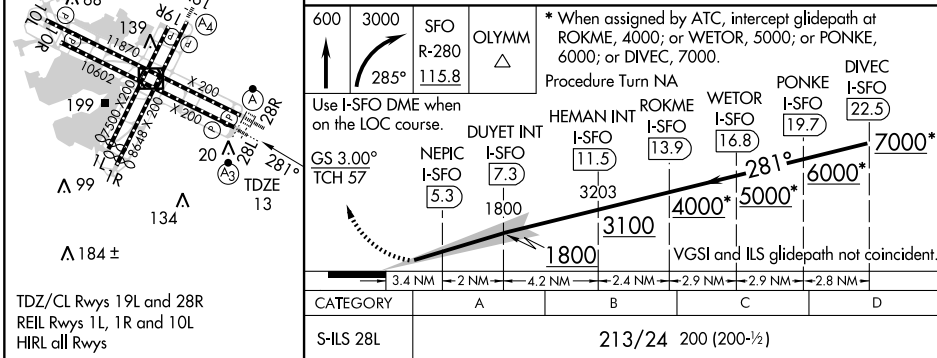
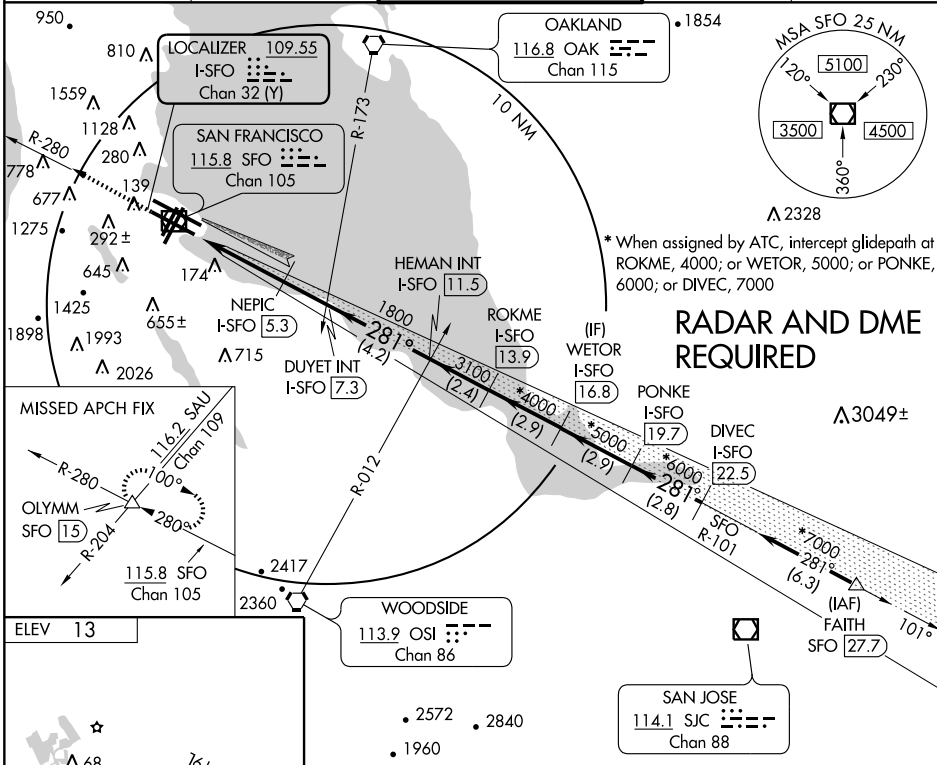
LOC/DME I-SFO <u>109.55</u> Chan 32 (Y)	APP CRS 281°	Rwy Idg 10602 TDZE 13 Apt Elev 13
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T	Simultaneous close parallel approach authorized with LDA PRM Rwy 28R.
A NA	Localizer only not authorized during close-parallel operations. Dual VHF comm required. Disregard IM and MM indications. See additional requirements on AAUP. Runway 28L and 28R separated by 750' centerline to centerline.

A diagram of a chromosome with a centromere and a circular marker labeled A3.

MISSED APPROACH: Climb to 600 then climbing right turn to 3000 via heading 285° and SFO VOR/DME R-280 to OLYMM INT/SFO VOR/DME 15 DME and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1 PRM 125.15	GND CON 121.8	CLNC DEL 118.2
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ATTENTION ALL USERS PAGE (AAUP)

Condensed Briefing Points:

- Listen to the PRM monitor frequency when communicating with NORCAL approach control (135.65), no later than LOC intercept.
- Expect to be switched to SFO Tower (120.5) at NEPIC (I-SFO 5.3 DME).
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.

1. **ATIS.** When the ATIS broadcast advises that simultaneous ILS/PRM and LDA/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 28L approach. If later advised to expect an ILS 28L approach, the ILS/PRM 28L chart may be used after completing the following briefing items:

- (a) Minimums and missed approach procedures are unchanged.
- (b) Monitor frequency no longer required.
- (c) A different glideslope intercept altitude may be assigned when advised to expect the ILS 28L approach.

Simultaneous parallel approaches will only be offered/conducted when the weather is at least 2100 feet (ceiling) and 4 miles (visibility).

2. **Dual VHF Communication required.** To avoid blocked transmissions, each runway will have two frequencies, a primary and a PRM monitor frequency. The NORCAL approach controller will transmit on both frequencies. The PRM Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the approach controller's frequency (135.65), but will listen to both frequencies. Select the PRM monitor frequency audio only when in contact with NORCAL approach control (135.65). The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked. The PRM monitor frequency may be de-selected passing NEPIC.

3. **ALL "Breakouts"** are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.

- (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1000 feet required obstruction clearance. The MVA in the final approach segment is 1600 feet at San Francisco International Airport.
- (b) Phraseology - "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE" (NTZ), the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:

"TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".

4. Descending on (not above) the ILS glideslope ensures complying with any charted crossing restrictions and assists traffic on the LDA PRM 28R approach to mitigate possible wake turbulence encounters without destabilizing the LDA approach and creating a go-around.

5. **LDA Traffic:** While conducting this ILS/PRM approach to Runway 28L, other aircraft may be conducting the offset LDA/PRM approach to Runway 28R. These aircraft will approach from the right-rear and will re-align with 28R after making visual contact with the ILS traffic.

Special pilot training required. Pilots who are unable to participate, or dispatchers on their behalf, must contact the FAA Command Center prior to departure (1-800-333-4286 or 703-904-4452) to obtain an arrival reservation. Non-participating pilots enroute to SFO as an alternate, or trained pilots that are unexpectedly unable to participate due to in-flight circumstances will be afforded appropriate arrival services as operational conditions permit. Non-participating pilots shall notify the Oakland ARTCC as soon as practical, but at least 100 miles from SFO.

AL-375 (FAA)

LOC/DME I-GWQ <u>111.7</u> Chan 54	APP CRS 283°	Rwy Idg TDZE Apt Elev	11870 13 13
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ILS RWY 28R (CAT II)

SAN FRANCISCO INTL (SFO)

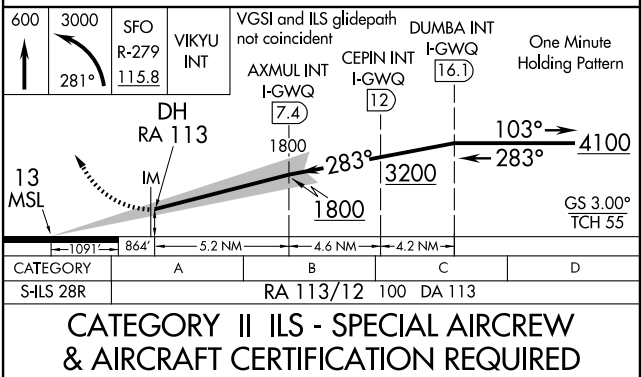
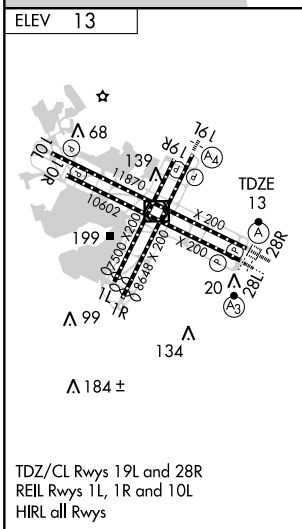
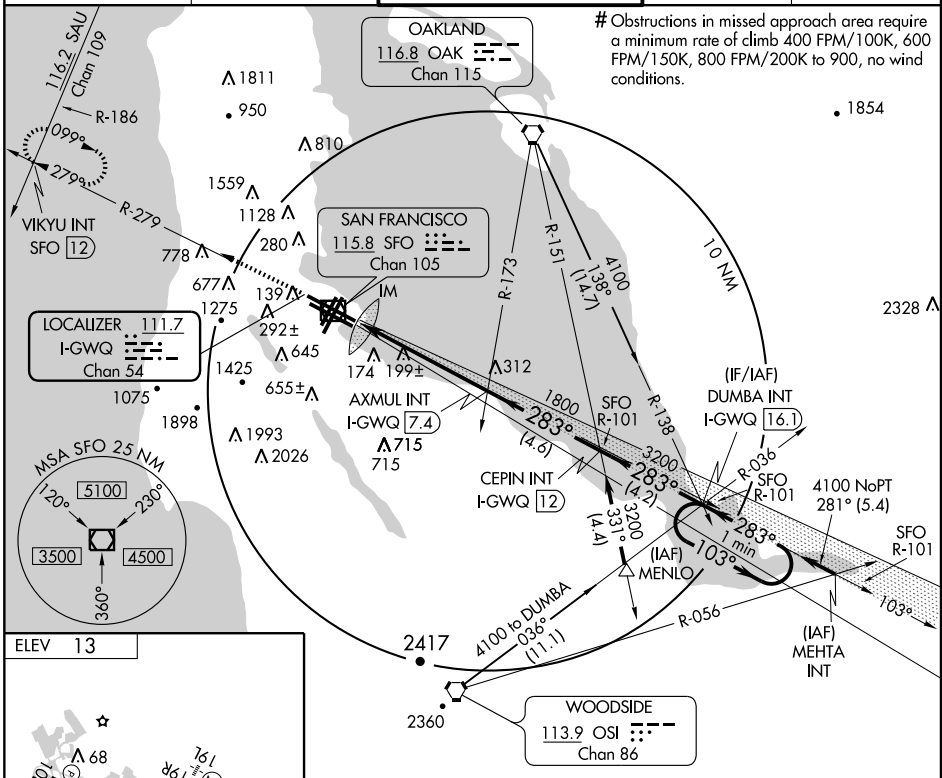


ALSF-2



MISSED APPROACH: Climb to 600, then climbing left turn to 3000 via heading 281° and SFO VOR/ DME R-279 to VIKYU Int/SFO 12 DME and hold. #

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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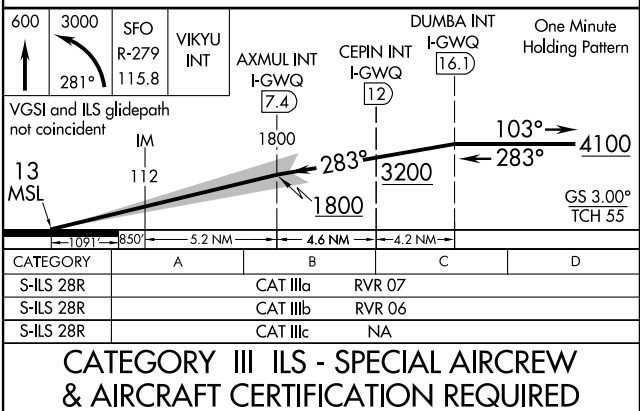
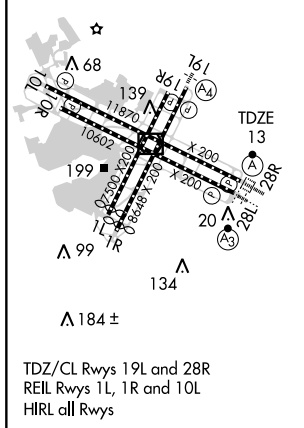
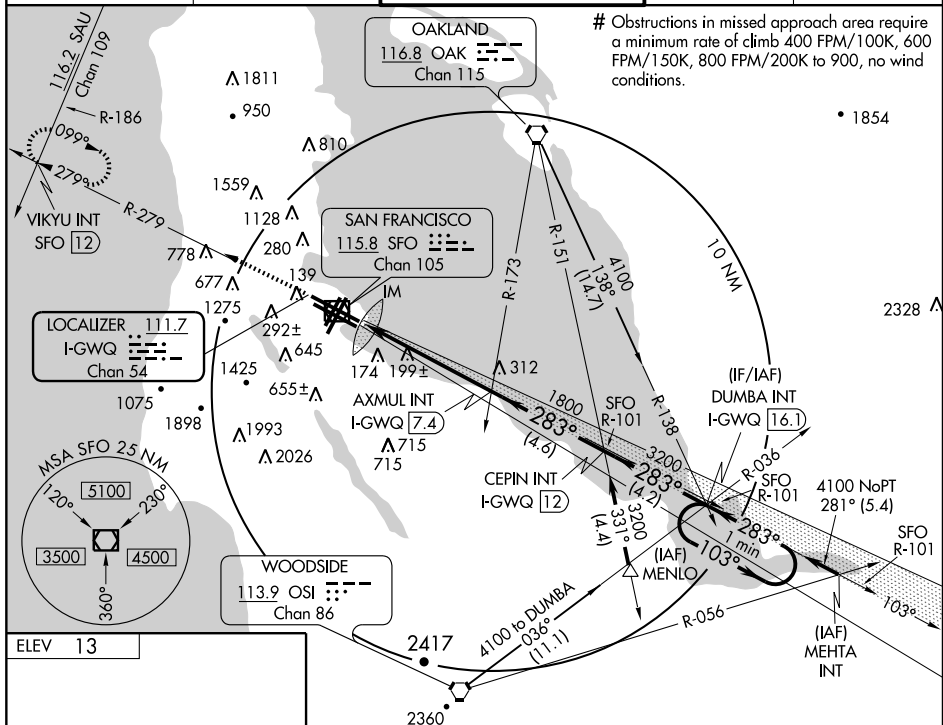
SW-2. 14 JAN 2010 to 11 FEB 2010

LOC/DME I-GWQ <u>111.7</u> Chan 54	APP CRS 283°	Rwy Idg TDZE Apt Elev	11870 13 13
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ILS RWY 28R (CAT III)
SAN FRANCISCO INTL (SFO)

	ALSF-2 	MISSED APPROACH: Climb to 600, then climbing left turn to 3000 via heading 281° and SFO VOR/DME R-279 to VIKYU Int/SFO 12 DME and hold. #
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ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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LOC/DME I-FNP <u>110.75</u> Chan 44 (Y)	APP CRS 278°	Rwy Idg TDZE Apt Elev	11870 13 13
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LDA/DME RWY 28R
SAN FRANCISCO INTL (SFO)

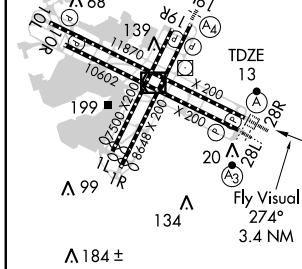
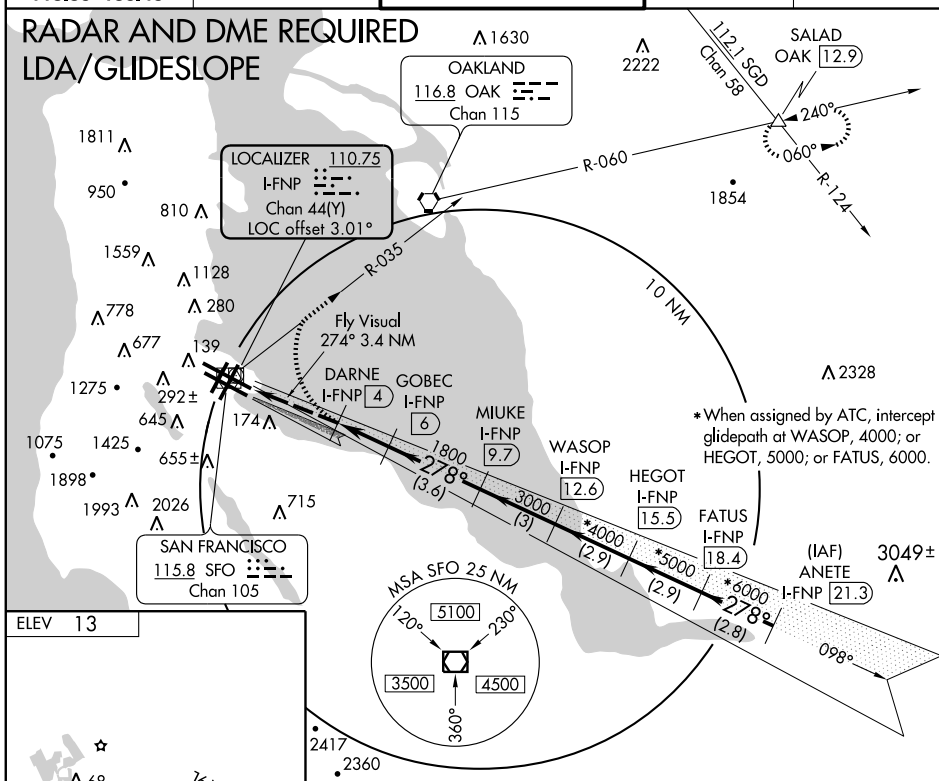
	Runway 28L and 28R separated by 750 feet centerline to centerline.
	Procedure NA when glideslope is not available. Localizer course 1199' right of Rwy 28R threshold. Inoperative table does not apply.

ALSF-2

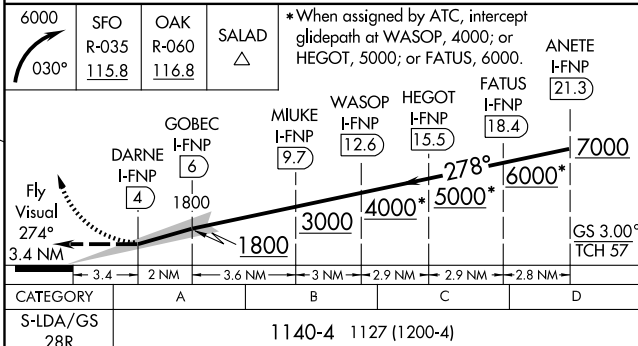


MISSED APPROACH: Climbing right turn to 6000 via heading 030° and SFO VOR/DME R-035 and OAK VORTAC R-060 to SALAD INT and hold, continue climb in hold to 6000.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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RADAR AND DME REQUIRED
LDA/GLIDESLOPE

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R, and 10L
HIRL all Rwy



LDA PRM RWY 28R (SIMULTANEOUS CLOSE PARALLEL) SAN FRANCISCO INTL (SFO)

LOC/DME I-FNP 110.75 Chan 44(Y)	APP CRS 278°	Rwy Idg TDZE Apt Elev	11870 13 13
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Simultaneous close parallel approach authorized with ILS PRM Rwy 28L.
Localizer only not authorized during close parallel operations.
Dual VHF comm required. See additional requirements on AAUP.
Runway 28L and 28R separated by 750 feet centerline to centerline.
Localizer course 1199' right of Rwy 28R threshold.
Inoperative table does not apply.

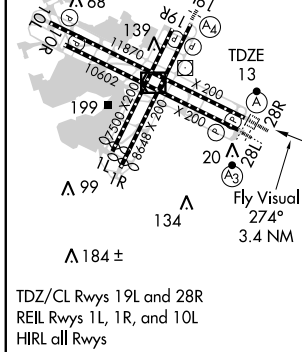
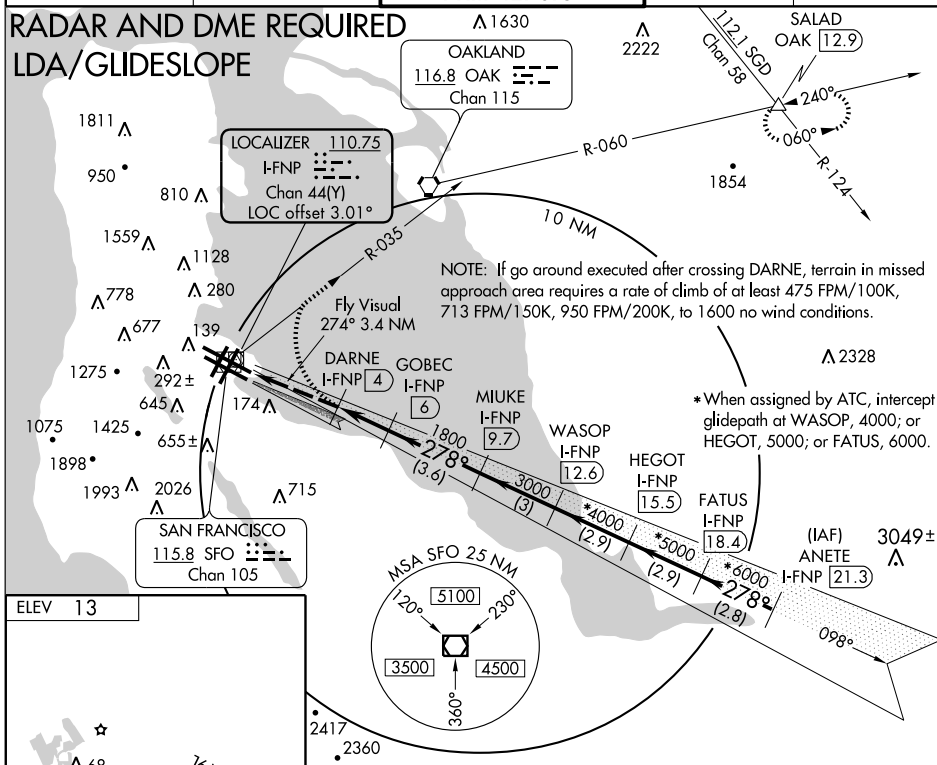
ALSF-2



MISSED APPROACH: Climbing right turn to 6000 via heading 030° and SFO VOR/DME R-035 and OAK VORTAC R-060 to SALAD INT and hold, continue climb in hold to 6000.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1 PRM 127.675	GND CON 121.8	CLNC DEL 118.2
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RADAR AND DME REQUIRED LDA/GLIDESLOPE



6000 030°	SFO R-035 115.8	OAK R-060 116.8	SALAD △	*When assigned by ATC, intercept glidepath at WASOP, 4000; or HEGOT, 5000; or FATUS, 6000.	ANETE I-FNP 21.3
DARNE I-FNP 4	GOBEC I-FNP 6	MIUKE I-FNP 9.7	WASOP I-FNP 12.6	HEGOT I-FNP 15.5	FATUS I-FNP 18.4
3.4 NM	1800	3000	4000*	5000*	6000*
3.4 NM	2 NM	3.6 NM	3 NM	2.9 NM	2.8 NM
7000	7000	7000	7000	7000	7000
GS 3.00°	GS 3.00°	GS 3.00°	GS 3.00°	GS 3.00°	GS 3.00°
TCH 57	TCH 57	TCH 57	TCH 57	TCH 57	TCH 57
CATEGORY S-LDA/GS 28R	A	B	C	D	
1140-4	1127	1200-4			

(SIMULTANEOUS CLOSE PARALLEL)

ATTENTION ALL USERS PAGE (AAUP)**Condensed Briefing Points:**

- Listen to the PRM monitor frequency when communicating with the NORCAL approach control (frequency 120.35), no later than LOC intercept.
- Report the ILS traffic in sight as soon as practical and prior to DARNE. DO NOT PASS.
- Expect to be switched to SFO tower (120.5) at DARNE, (I-FNP 4.0 DME).
- Remain on the LDA until passing DARNE (LDA MAP) so as not to penetrate the NTZ.
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.

1. **ATIS.** When the ATIS broadcast advises that simultaneous ILS/PRM and LDA/PRM approaches are in progress, pilots should brief to fly the LDA/PRM 28R approach. If later advised to expect an LDA/DME 28R approach, the LDA/PRM 28R chart may be used after completing the following briefing items:

- (a) Minimums and missed approach procedures are unchanged.
- (b) Monitor frequency no longer required.
- (c) A different glideslope intercept altitude may be assigned when advised to expect LDA/DME 28R approach.

Simultaneous parallel approaches will only be offered/conducted when the weather is at least 2100 feet (ceiling) and 4 miles (visibility).

2. **Dual VHF Communication required.** To avoid blocked transmissions, each runway will have two frequencies, a primary and a PRM monitor frequency. The NORCAL approach controller will transmit on both frequencies. The PRM Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the approach controller's frequency (120.35), but will listen to both frequencies. Select the PRM monitor frequency audio only when in contact with the NORCAL approach control (120.35). The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked. If executing a missed approach at DARNE, begin the turn as soon as practical.

3. **ALL "Breakouts"** are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.

- (a) ATC Directed "Breakouts": ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1000 feet required obstruction clearance. The applicable MVA is 1600 feet at SFO.
- (b) Phraseology - "TRAFFIC ALERT" : If an aircraft enters the "NO TRANSGRESSION ZONE" (NTZ), the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
"TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".

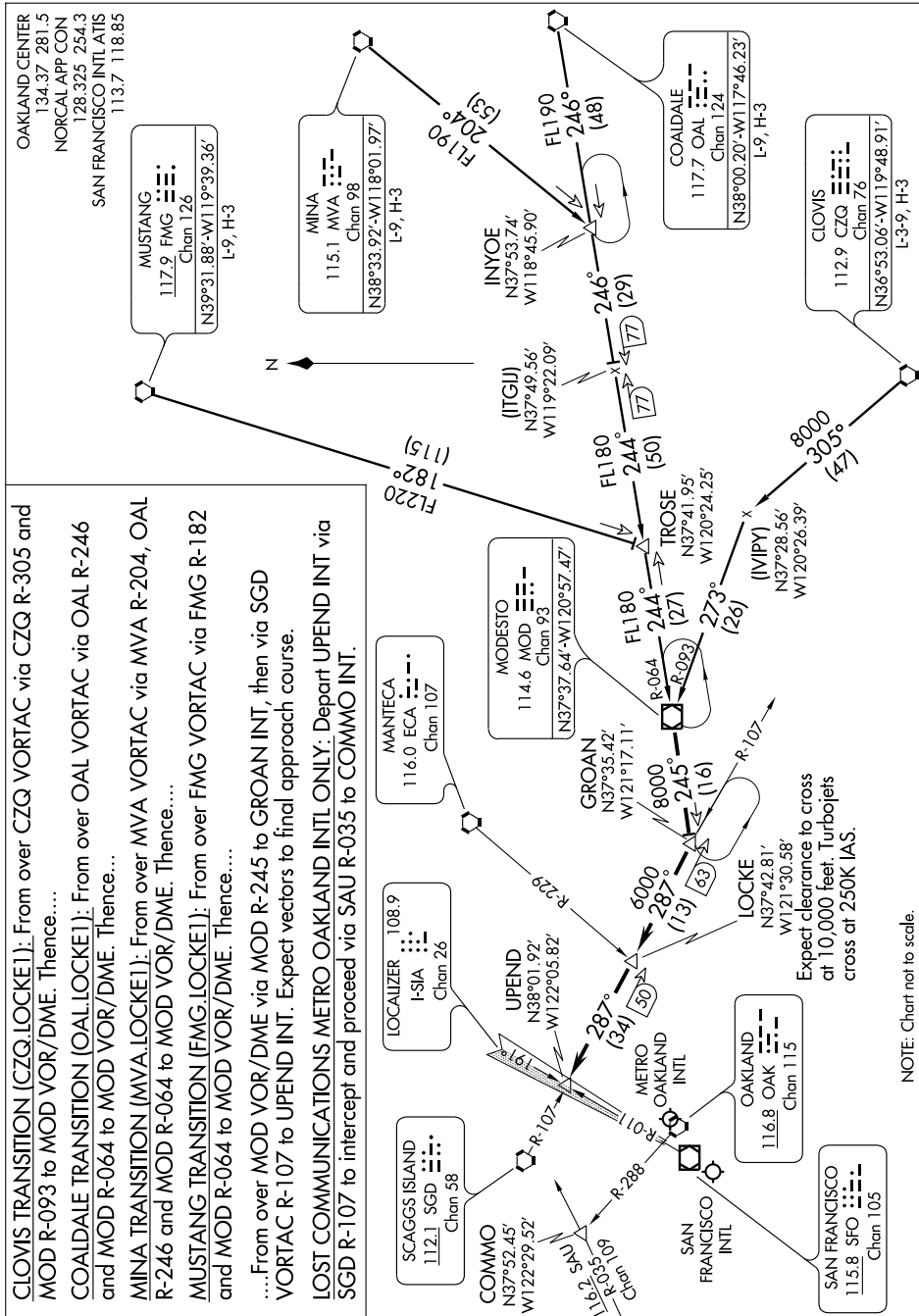
4. **Glide Slope Navigation:** Descending on the glide slope ensures compliance with any charted crossing restrictions.

5. **SFO LDA Visual Segment.** If ATC advises that there is traffic on the 28L ILS, pilots are authorized to continue past the LDA 28R MAP to align with runway 28R centerline when:

- (a) the ILS traffic is in sight and is expected to remain in sight.
- (b) ATC has been advised that "traffic is in sight." (ATC is not required to acknowledge this transmission.)
- (c) the runway environment is in sight.

Otherwise, a missed approach must be executed at the LDA MAP. Between DARNE and the runway threshold, pilots of the LDA aircraft are responsible for separating themselves visually from traffic on the ILS approach, which means maneuvering the aircraft as necessary to avoid the ILS traffic until landing (do not pass), and providing wake turbulence avoidance, if applicable. If visual contact with the ILS traffic is subsequently lost, advise ATC as soon as practical and execute the published missed approach unless otherwise instructed by ATC.

Refer to "special pilot training required" on the ILS PRM 28L AAUP for specific non-participation procedures.

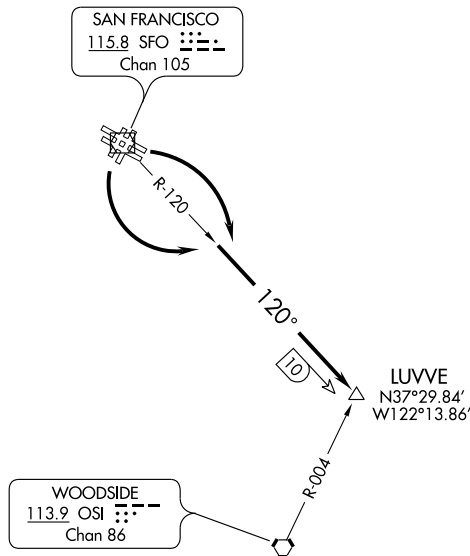


LUVVE TWO DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

ATIS 135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
135.1 307.2



NOTE: Rwy 19L/R departures turn left due to steeply rising terrain to 2000' immediately south of airport.
For obstacle clearance the following minimum climb rates are required:
Rwy 19L, 480' per NM to 1400'.
Rwy 19R, Categories A, B, 480' per NM to 1400';
Categories C, D, 530' per NM to 1800'.

NOTE: Chart not to scale.

SW-2, 14 JAN 2010 to 11 FEB 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R: Turn right and climb via SFO R-120 to LUVVE INT, expect vector to assigned route/fix after LUVVE INT. Expect further clearance to filed altitude 10 minutes after departure.

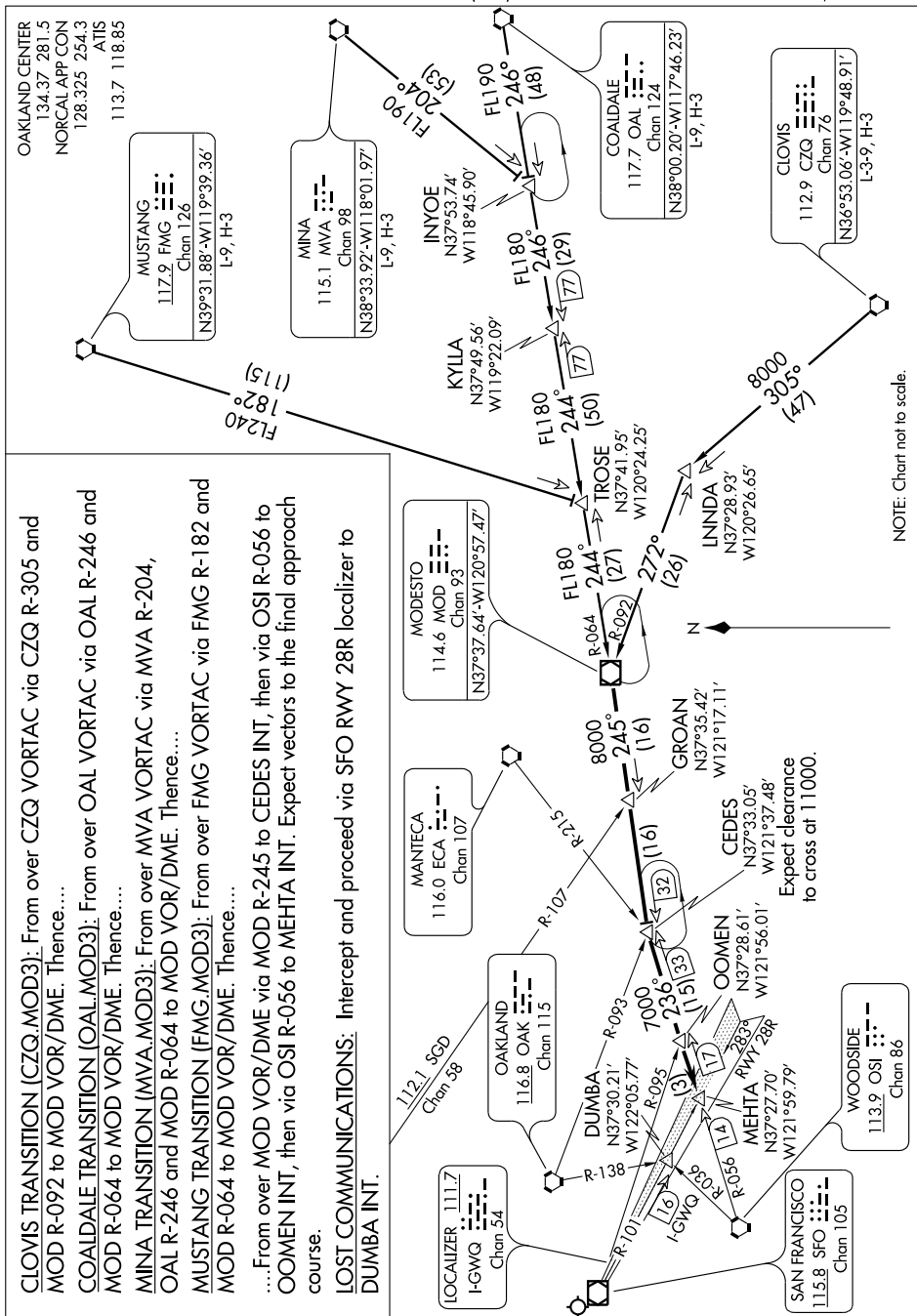
TAKE-OFF RUNWAYS 19L/R: Turn left and climb via SFO R-120 to LUVVE INT, expect vector to assigned route/fix after LUVVE INT. Expect further clearance to filed altitude 10 minutes after departure.

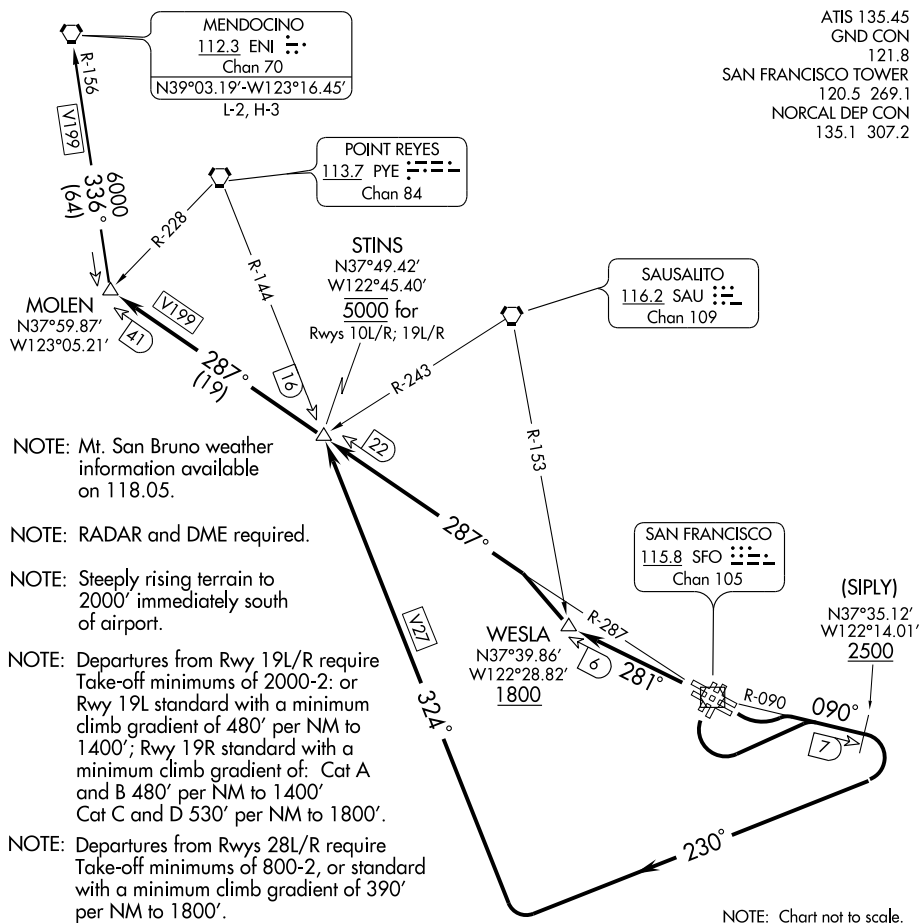
LOST COMMUNICATIONS:

TAKE-OFF RUNWAYS 10L/R and 19L/R: If not in contact with departure control after reaching 3000' continue climb to assigned altitude and proceed direct to assigned route/fix.

MODESTO THREE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO INTL
SAN FRANCISCO, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via the SFO R-090 to the 7 DME Fix, then turn right heading 230° to intercept and proceed via PYE R-144 to STINS INT. Cross the SFO R-090 7 DME Fix at or above 2500'. Cross STINS INT at 5000'. Thence via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via SFO R-281 to WESLA INT, then turn right to intercept and proceed via SFO R-287 to MOLEN INT. Cross the SFO R-281 6 DME Fix (WESLA INT) at or above 1800'. Thence via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

MENDOCINO TRANSITION (MOLEN3.ENI): From over MOLEN INT via ENI R-156
ENI VORTAC.

SW-2. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Intercept and proceed via SFO R-350. Cross SFO R-350 4 DME at or above 1600'. Thence....

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via SFO R-281. Cross SFO R-281 6 DME at or above 2500'. Thence....

.... Turn left heading 200° to intercept and proceed via PYE R-151 to SEGUL INT. Cross SEGUL INT at or above 16,000'. Then proceed via PYE R-151 to CYPRS INT; cross CYPRS INT at or above FL 220. Then via the MQO R-295 to MCKEY INT, then via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure. When SFO VOR/DME is inoperative, Runway 28 departures expect radar vector to PYE R-151, then resume departure.

FELLOWS TRANSITION (OFFSH5.FLW): From over MCKEY INT via MQO R-295 to MQO VORTAC, then via MQO R-086 and FLW R-266 to FLW VORTAC.

GAVIOTA TRANSITION (OFFSH5.GVO): From over MCKEY INT via MQO R-295 to MQO VORTAC, then via MQO R-126 and GVO R-307 to GVO VORTAC.

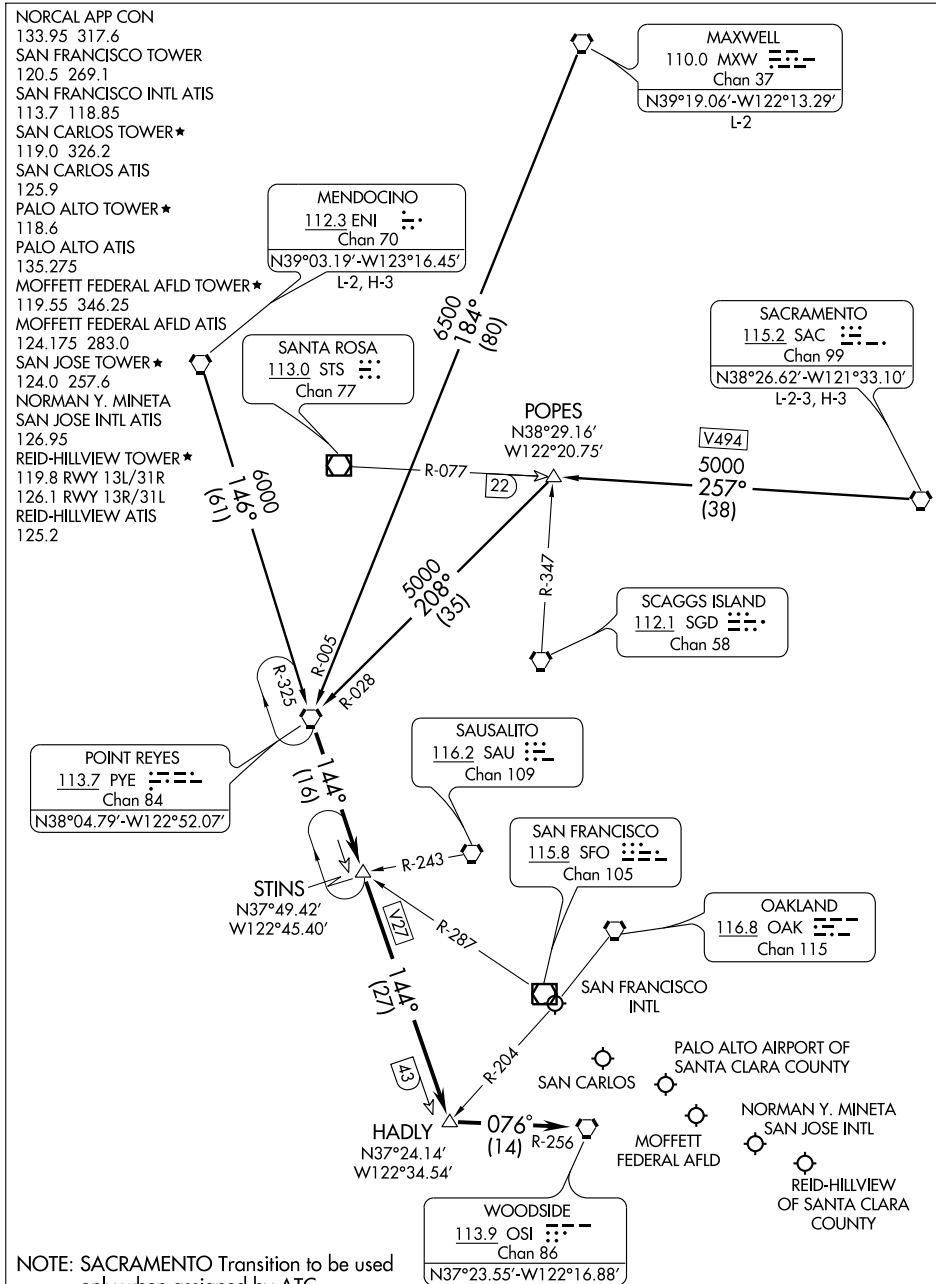
SAN MARCUS TRANSITION (OFFSH5.RZS): From over MCKEY INT via MQO R-295 to MQO VORTAC, then via MQO R-116 and RZS R-299 to RZS VORTAC.

SANTA CATALINA TRANSITION (OFFSH5.SXC): From over MCKEY INT via BSR R-131 and SXC R-287 to SXC VORTAC.

POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



NOTE: SACRAMENTO Transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-2. 14 JAN 2010 to 11 FEB 2010

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

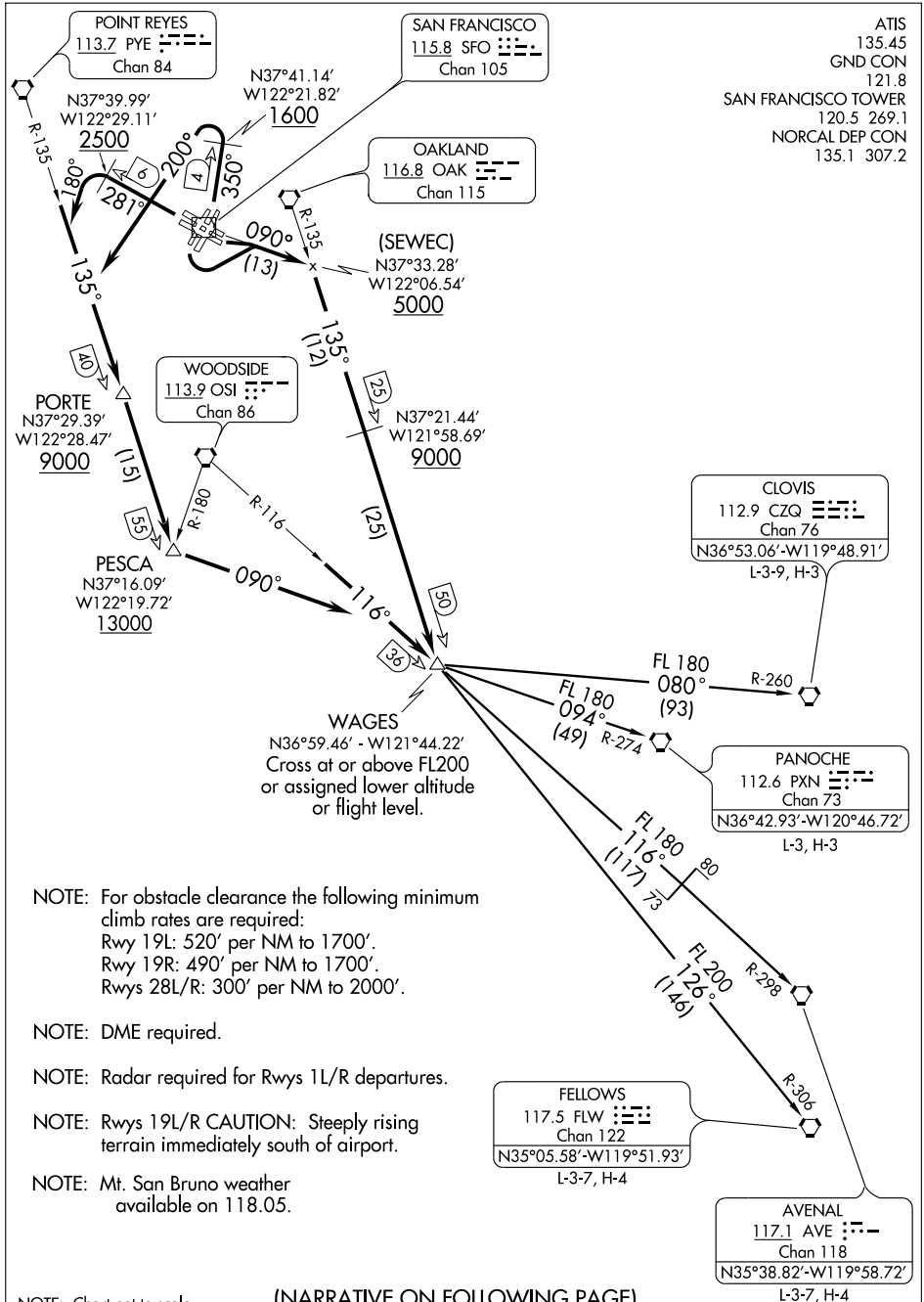
MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

PORTE THREE DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Intercept and proceed via SFO R-350. Cross SFO R-350/4 DME fix at or above 1600'. Turn left heading 200° to intercept and proceed via PYE R-135. Cross PORTE DME fix at or above 9000' and PESCA DME fix at or above 13,000'. Then turn left heading 090° to intercept and proceed via the OSI R-116 to WAGES INT. Cross WAGES INT at or above FL 200 or assigned lower altitude or flight level. Thence via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 10L/R and 19L/R: Turn left and climb via the SFO R-090 to intercept the OAK R-135 at or above 5000'. Proceed via the OAK R-135 to WAGES INT. Cross the OAK R-135/25 DME fix at or above 9000'. Cross WAGES INT at or above FL 200 or assigned lower altitude or flight level. Thence via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via the SFO R-281, cross SFO R-281/6 DME fix at or above 2500', then turn left heading 180° to intercept and proceed via the PYE R-135 to cross PORTE DME fix at or above 9000' and PESCA DME fix at or above 13,000'. Then turn left heading 090° to intercept and proceed via the OSI R-116 to WAGES INT. Cross WAGES INT at or above FL 200 or assigned lower altitude or flight level. Thence via (transition) or (assigned route). Expect clearance to filed altitude 10 minutes after departure. When SFO VOR/DME is inoperative, Rwy 28 departures expect radar vector to PYE R-135 then resume SID.

AVENAL TRANSITION (PORTE3.AVE): From over WAGES INT via OSI R-116 and AVE R-298 to AVE VORTAC.

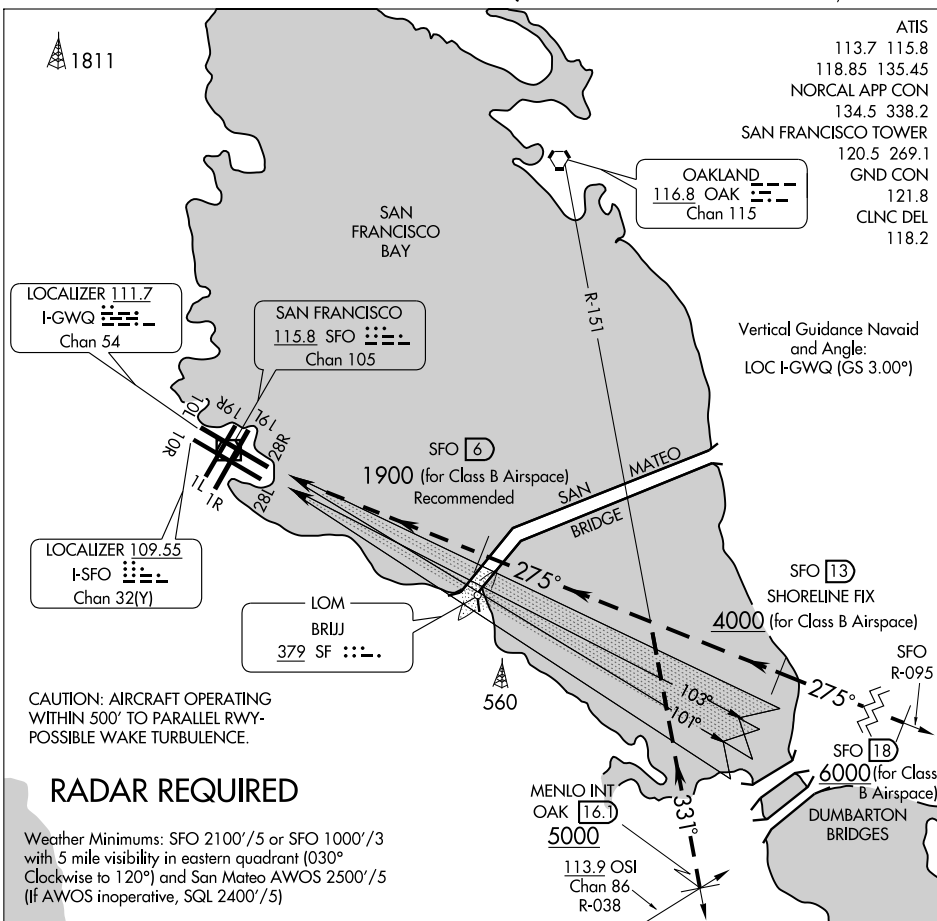
CLOVIS TRANSITION (PORTE3.CZQ): From over WAGES INT via CZQ R-260 to CZQ VORTAC.

FELLOWS TRANSITION (PORTE3.FLW): From over WAGES INT via FLW R-306 to FLW VORTAC.

PANOCHÉ TRANSITION (PORTE3.PXN): From over WAGES INT via PXN R-274 to PXN VORTAC.

QUIET BRIDGE VISUAL RWYS 28L/R

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



QUIET BRIDGE VISUAL APPROACH RWYS 28L/R

When visual approaches to Runways 28L/R are in progress, arriving aircraft may be vectored into a position for a straight-in visual approach to Runways 28L/R via the SFO VOR R-095.

SFO VOR and DME must be operating.

Aircraft should remain on the SFO R-095 until passing the San Mateo Bridge.

NOTE: Closely spaced parallel visual approaches may be in progress to Runway 28L utilizing I-SFO. In the event of a go-around on Runway 28L, turn left heading 265°, or on Runway 28R, turn right heading 310°, climb and maintain 3000, or as directed by Air Traffic Control.

QUIET TWO DEPARTURE

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

SL-375 (FAA)

ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

MENDOCINO
112.3 ENI
Chan 70
N39°03.19'-W123°16.45'
L-2, H-3

(SAWNA)
N38°52.11'
W122°24.11'

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

CHICO
109.8 CIC
Chan 35
N39°47.39'-W121°50.83'
L-2

(SASSU)
N38°22.08'
W122°22.85'

SCAGGS ISLAND
112.1 SGD
Chan 58

SACRAMENTO
115.2 SAC
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3

SAUSALITO
116.2 SAU
Chan 109

REBAS
N37°56.44'
W122°23.02'
6000

LINDEN
114.8 LIN
Chan 95
N38°04.47'
W121°00.23'
L-2-3, H-3

SAN FRANCISCO
115.8 SFO
Chan 105

NOTE: Mt. San Bruno weather information available on 118.05.

NOTE: Runways 28L/R
Caution: terrain above 1000' at 3.5 NM NW.
For obstruction clearance a minimum climb of 425' per NM to 1500' is required.

NOTE: For use by Runways 28L/R departures when weather conditions permit. Jets 2000' ceiling and three miles prevailing visibility with five miles to the west and northwest. Props 1500' ceiling, same visibility.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via SFO R-011 to the 4 DME/Radar then turn left heading 320° to intercept and proceed via SFO R-342 to cross REBAS INT at or above 6000'. Thence via (transition) or (assigned route). Expect clearances to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Turn right heading 030° to intercept and proceed via the SFO R-342 to REBAS INT. Cross REBAS INT at or above 6000'. Then via (transition) or (assigned route). Maintain VFR conditions until intercepting SFO R-342. Expect clearance to filed altitude 10 minutes after departure.

CHICO TRANSITION (CUIT2.CIC): From over REBAS INT via SFO R-342 and CIC R-190 to CIC VOR/DME.

LINDEN TRANSITION (CUIT2.LIN): From over REBAS INT via LIN R-246 to LIN VORTAC.

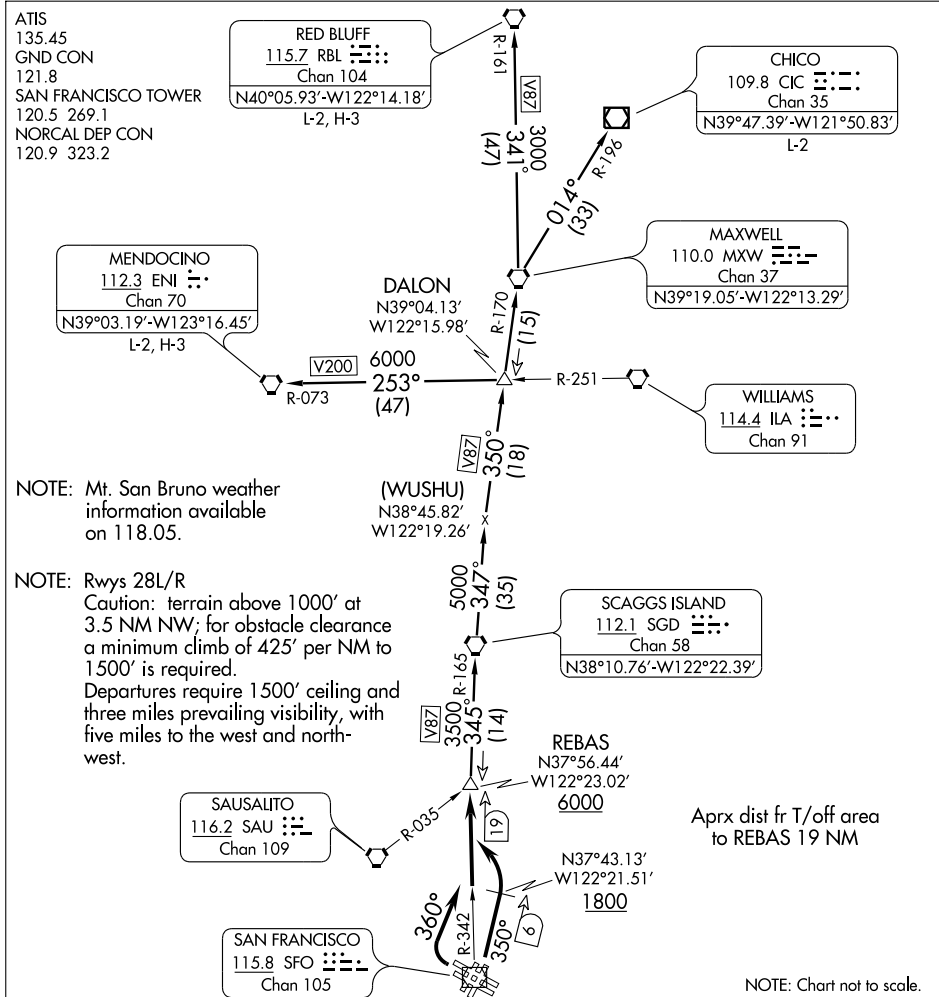
MENDOCINO TRANSITION (CUIT2.ENI): From over REBAS INT via SFO R-342 and ENI R-118 to ENI VORTAC.

RED BLUFF TRANSITION (CUIT2.RBL): From over REBAS INT via SFO R-342 and RBL R-168 to RBL VORTAC.

SACRAMENTO TRANSITION (CUIT2.SAC): From over REBAS INT via SAC R-216 to SAC VORTAC.

REBAS THREE DEPARTURE (PROP)

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via the SFO R-350 to cross the 6 DME fix at or above 1800', then turn left to intercept and proceed via the SFO R-342, to cross REBAS INT at or above 6000'. Thence....

TAKE-OFF RUNWAYS 28L/R: Turn right heading 360° (or as assigned) to intercept and proceed via the SFO R-342 to REBAS INT. Cross REBAS INT at or above 6000'. Thence....

....via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

CHICO TRANSITION (REBAS3.CIC): From over REBAS INT via SGD R-165 to SGD VORTAC then SGD R-347 and MXW R-170 to MXW VORTAC. Then via MXW R-014 to CIC VOR/DME.

MENDOCINO TRANSITION (REBAS3.ENI): From over REBAS INT via SGD R-165 to SGD VORTAC, then via SGD R-347 and MXW R-170 to DALON INT, then via ENI R-073 to ENI VORTAC.

RED BLUFF TRANSITION (REBAS3.RBL): From over REBAS INT via SGD R-165 to SGD VORTAC then via SGD R-347 and MXW R-170 to MXW VORTAC. Then via MXW R-341 and RBL R-161 to RBL VORTAC.

APP CRS	Rwy Idg	11870
101°	TDZE	7
	Apt Elev	13

RNAV (GPS) RWY 10L
SAN FRANCISCO INTL (SFO)

A NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

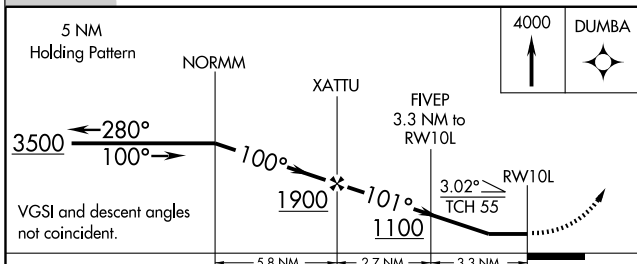
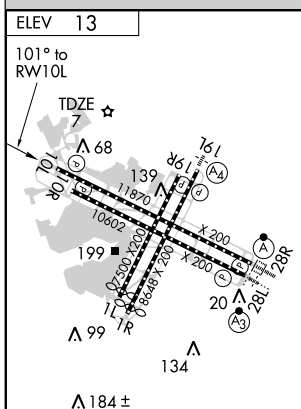
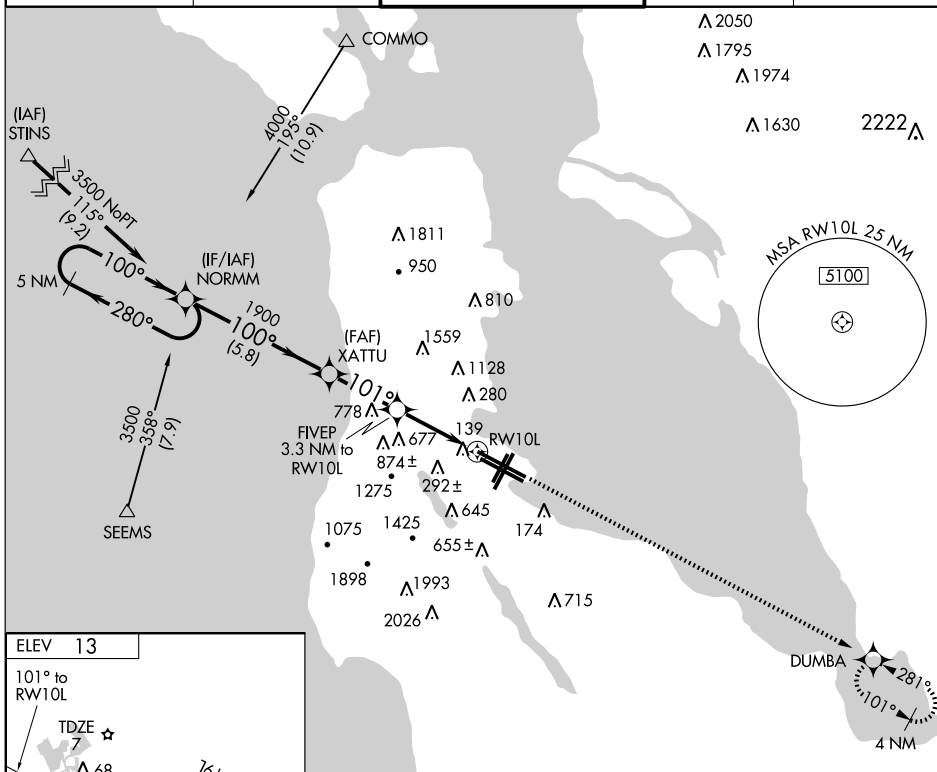
MISSED APPROACH: Climb to 4000 direct DUMBA WP and hold.

ATIS
113.7 115.8
118.85 135.45

NORCAL APP CON
184.5 888.8

SAN FRANCISCO TOWER
120.5 269.1

GND CON
121.8

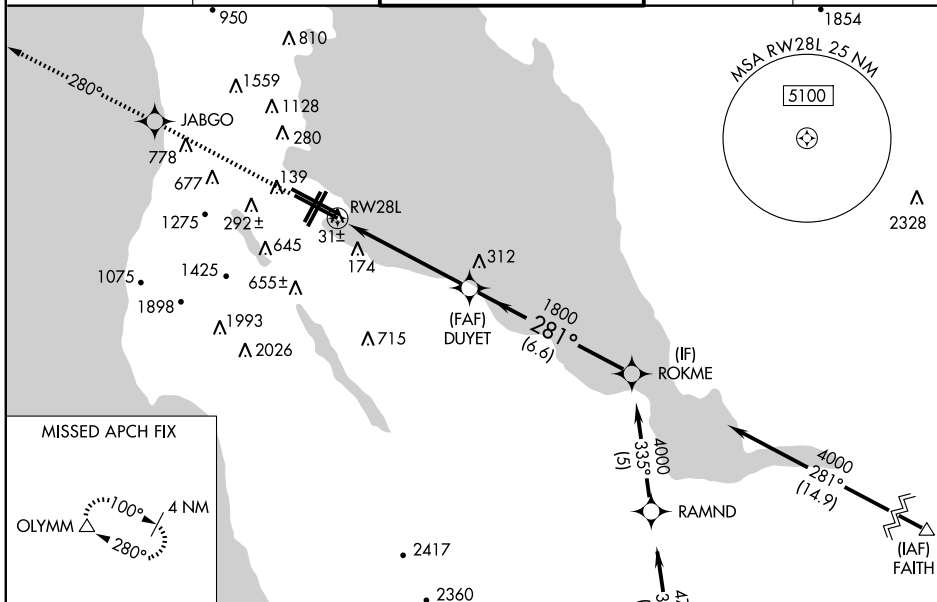
CLNC DEL
118.2

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R, and 10L
HIRL all Rwy

CATEGORY	A	B	C	D
LNAY MDA	940/60	933 (1000-1¼)	940-2¾ 933 (1000-2¾)	940-3 933 (1000-3)
CIRCLING	940-1¼	927 (1000-1¼)	1040-3 1027 (1100-3)	1160-3 1147 (1200-3)

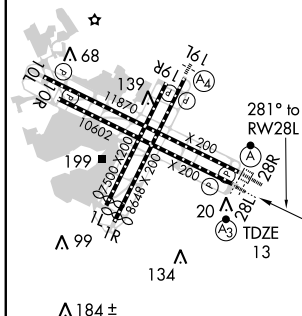
RNAV (GPS) RWY 28L
SAN FRANCISCO INTL (SFO)

MISSED APPROACH: Climb to 4000 direct JABGO and via track 280° to OLYMM and hold.

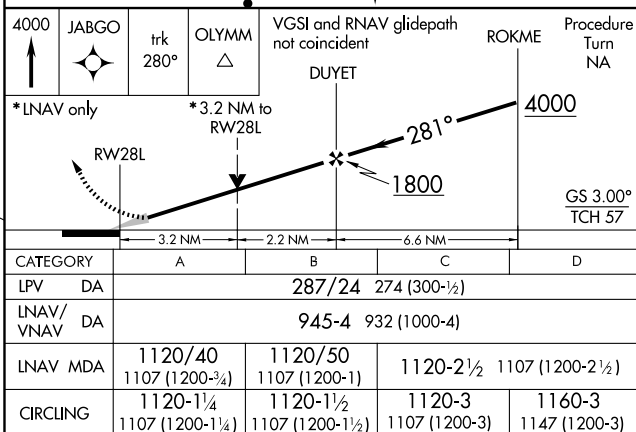
CLNC DEL
118.2

SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV 13



TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy



APP CRS	Rwy Idg	10602
101°	TDZE	9
	Apt Elev	13

RNAV (GPS) X RWY 10R
SAN FRANCISCO INTL (SFO)

T	DME/DME RNP-0.3 NA.
A NA	Visibility reduction by helicopters NA.

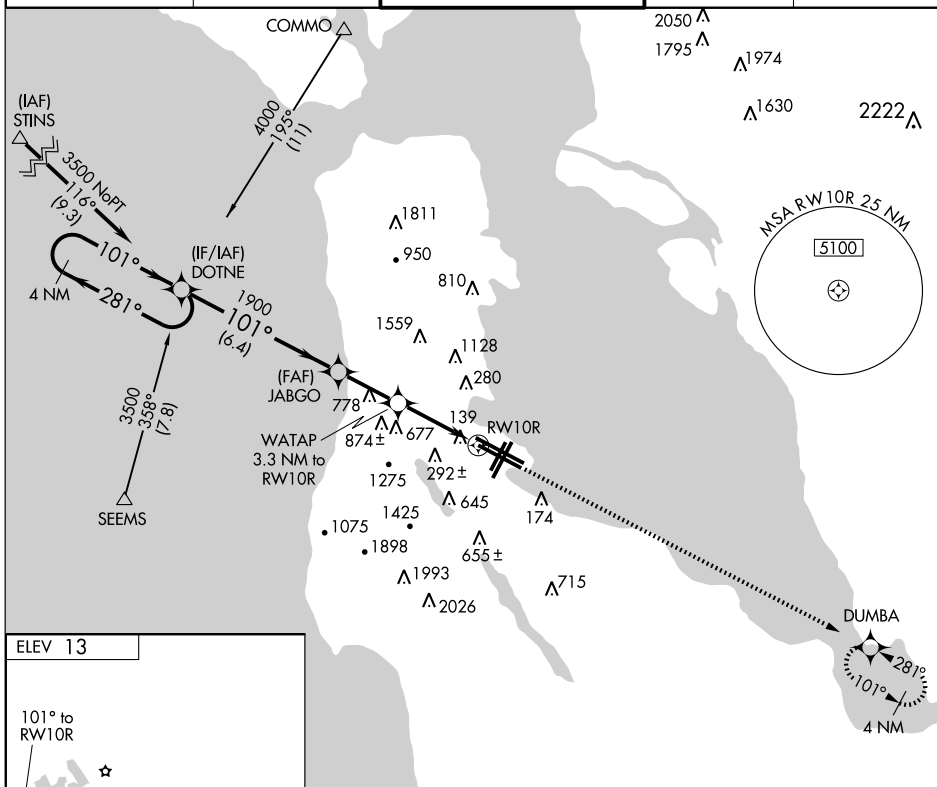
MISSED APPROACH: Climb to 4000 direct DUMBA and hold.

ATIS
113.7 115.8
118.85 135.45

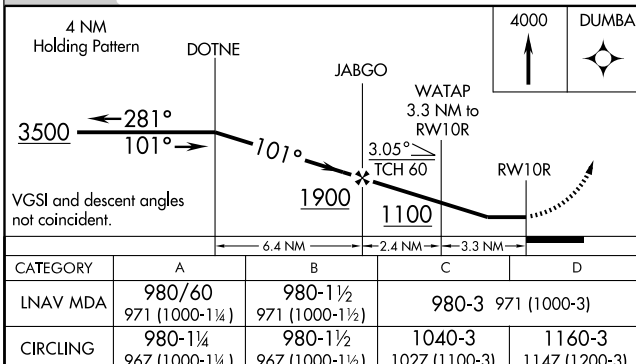
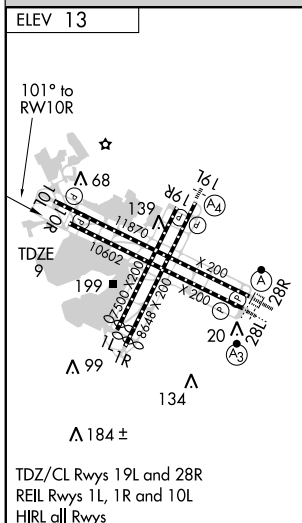
NORCAL APP CON
134.5 338.2

SAN FRANCISCO TOWER
120.5 269.1

GND CON
121.8

CLNC DEL
118.2

SW-2. 14 JAN 2010 to 11 FEB 2010



APP CRS	Rwy Idg	8648
191°	TDZE	11
	Apt Elev	13

RNAV (GPS) Y RWY 19L
SAN FRANCISCO INTL (SFO)

 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

SSALS



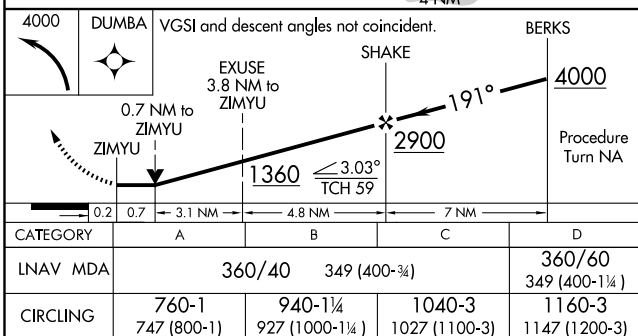
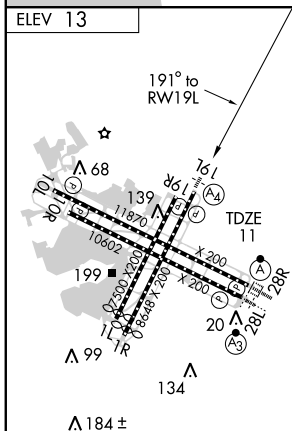
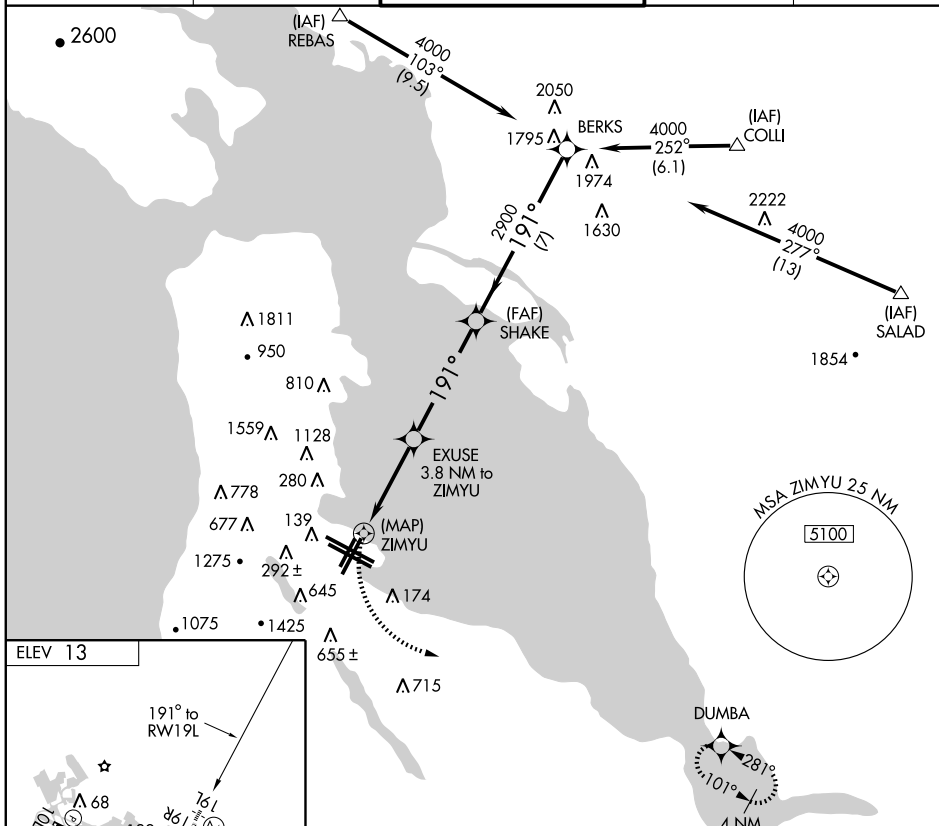
MISSED APPROACH: Climbing left turn to 4000 direct to DUMBA WP and hold.

ATIS
113.7 115.8
118.85 135.45

NORCAL APP CON
124.5 228.0

SAN FRANCISCO TOWER
120.5 269.1

GND CON
121 8

CLNC DEL
118.2

SW-2. 14 JAN 2010 to 11 FEB 2010

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

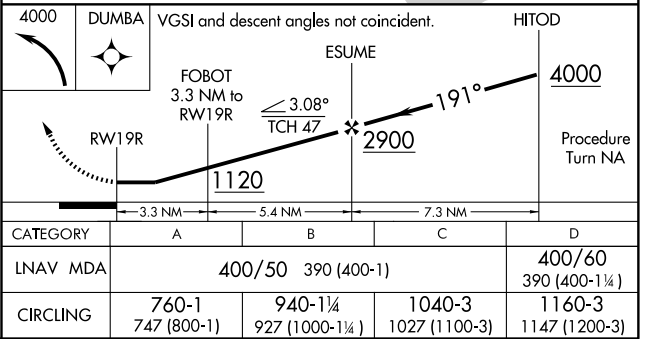
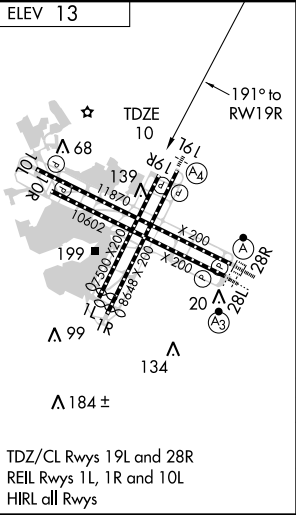
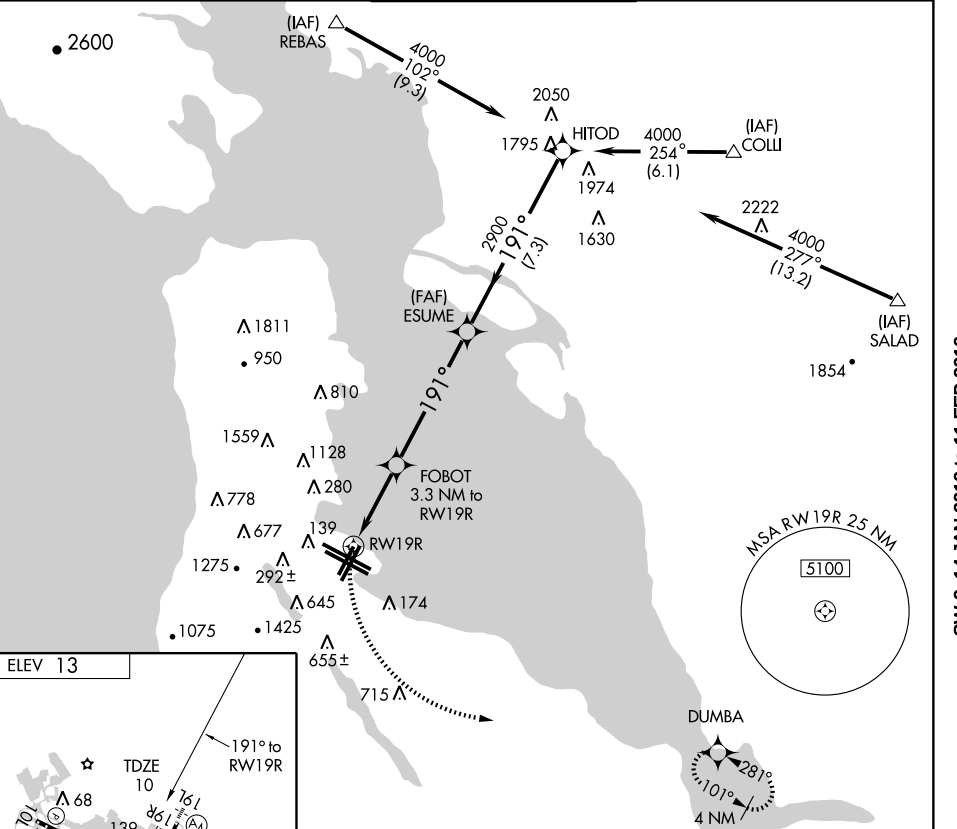
NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH:

Climbing left turn to 4000 direct to DUMBA WP and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

APP CRS	Rwy Idg	10602
101°	TDZE	9
	Apt Elev	13

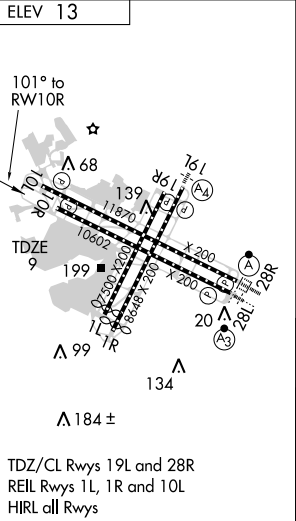
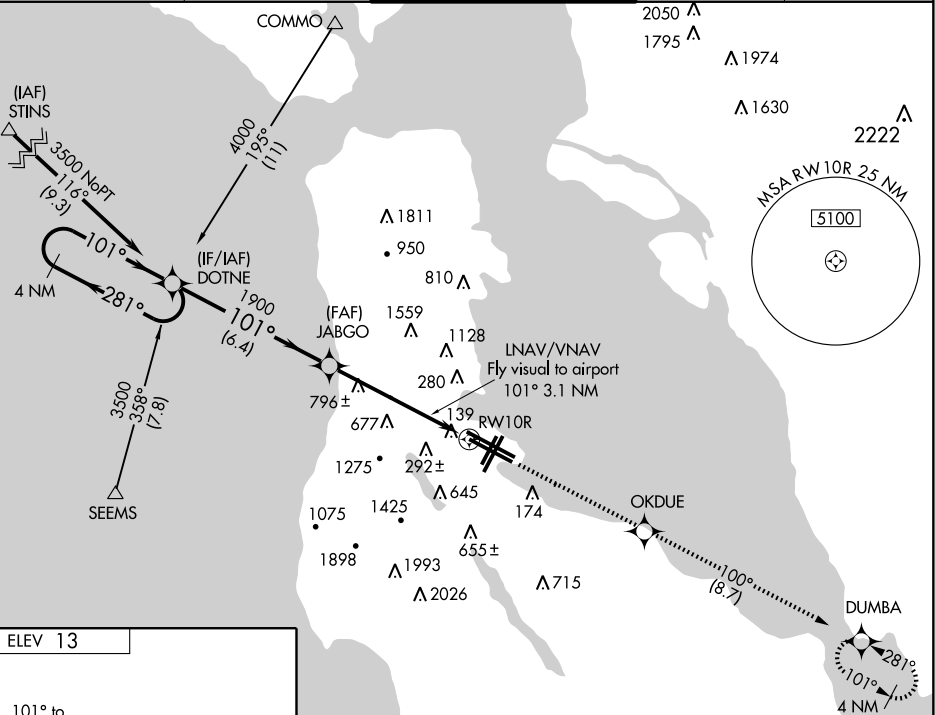
RNAV (GPS) Z RWY 10R

SAN FRANCISCO INTL (SFO)

T GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
A NA Baro-VNAV NA below -15°C (5°F).
W LNAV/VNAV: Fly visual to airport 101°- 3.1 NM.

MISSED APPROACH: Climb to 4000 direct OKDUE WP and left turn via 100° track to DUMBA WP and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4 NM Holding Pattern		VGSI and descent angles not coincident.		4000 	OKDUE 	100° trk 	DUMBA 
DOTNE		JABGO		*2.8 NM to RW10R		*LNAV only	
3500 ←281° 101°→		101°		RW10R		LNAV/ VNAV Fly visual 101° 3.1 NM	
GS 3.00° TCH 60		1900		2.9 NM		2.8 NM	
		6.4 NM					
CATEGORY	A		B	C		D	
GLS PA DA	NA						
LNAV/ VNAV DA	1060-2 1051 (1100-2)		1060-3 1051 (1100-3)				
LNAV MDA	1060/60 1051 (1100-1¼)		1060-1½ 1051 (1100-1½)		1060-3 1051 (1100-3)		
CIRCLING	1060-2 1047 (1100-2)		1060-3 1047 (1100-3)		1160-3 1147 (1200-3)		

WAAS CH 58015 W19A	APP CRS 191°	Rwy Idg TDZE 11 Apt Elev 13	8648
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RNAV (GPS) Z RWY 19L

SAN FRANCISCO INTL (SFO)

▼

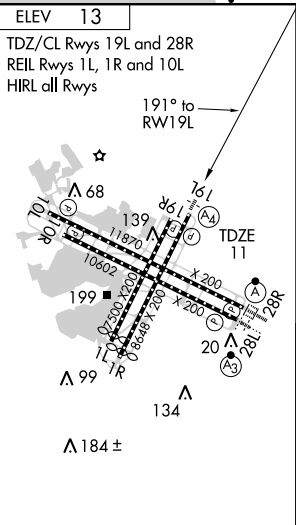
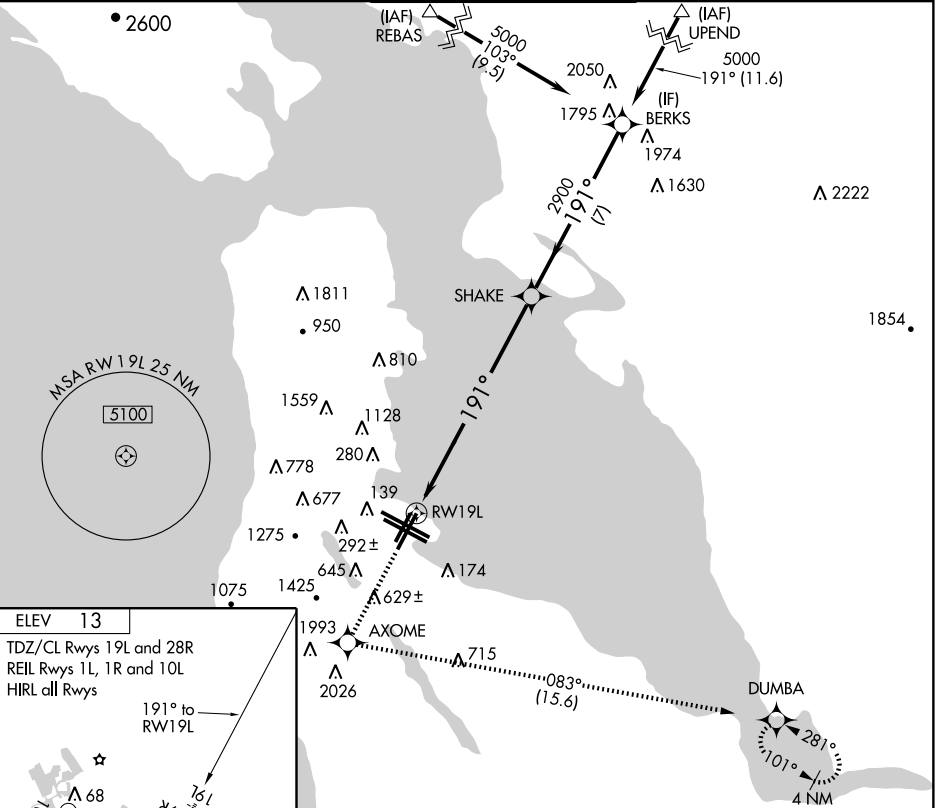
▲

DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
*Missed approach requires minimum climb of 400 feet per NM to 2900.

SSALS

MISSED APPROACH: Climb to 4000 direct AXOME and left turn via track 083° to DUMBA and hold, continue climb-in-hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4000	AXOME	DUMBA	SHAKE	BERKS
↑				
VGSI and RNAV glidepath not coincident				
Procedure Turn NA GS 2.95° TCH 60				
CATEGORY	A	B	C	D
LPV DA*	261/40 250 (300-¾)			
LPV DA	1173-5 1162 (1200-5)			

T

NA

W

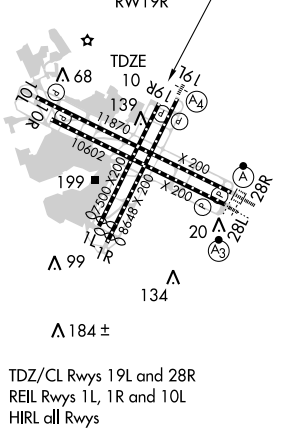
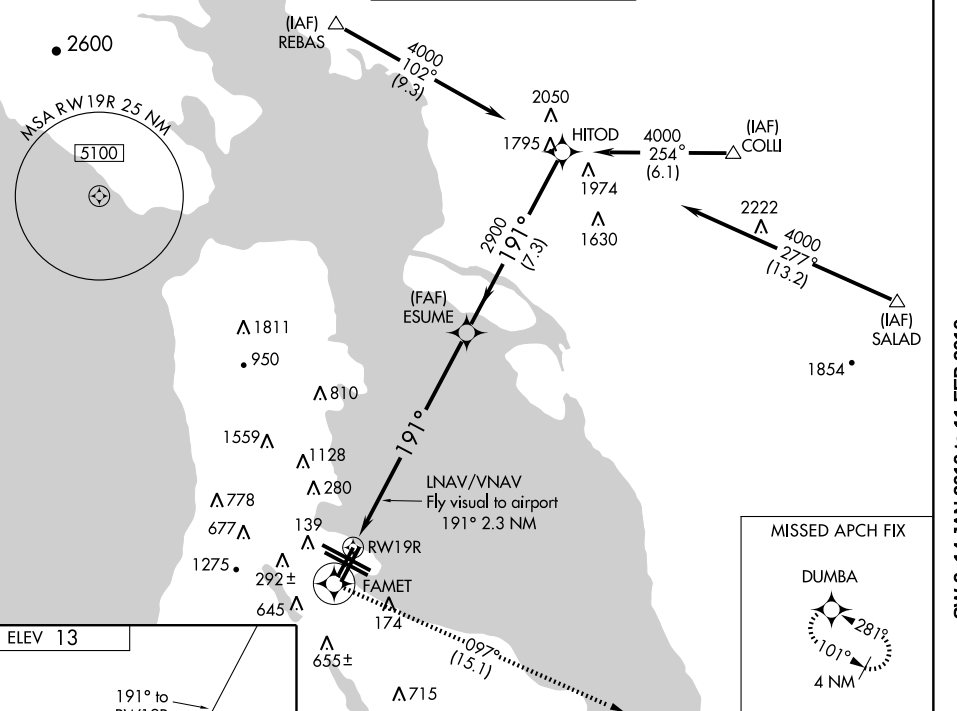
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

Baro-VNAV NA below -15°C (5°F).

LNAV/VNAV: Fly visual to airport 191° - 2.3 NM.

MISSED APPROACH: Climb to 4000 direct FAMET WP and left turn via 097° track to DUMBA WP and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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4000 ↑	FAMET 	097° trk 	DUMBA 	ESUME	HITOD
VGSI and descent angles not coincident.					4000
LNAV/ VNAV Fly visual 191° 2.3 NM	RW19R 	2.3	6.4 NM	7.3 NM	Procedure Turn NA GS 3.00° TCH 47
CATEGORY	A		B	C	D
GLS PA DA	NA				
LNAV/ VNAV DA	800-2	790 (800-2)	800-2¼ 790 (800-2¼)	800-2½ 790 (800-2½)	
LNAV MDA	1060/60 1050 (1100-1¼)	1060-1½ 1050 (1100-1½)	1060-3	1050 (1100-3)	
CIRCLING	1060-2	1047 (1100-2)	1060-3 1047 (1100-3)	1160-3 1147 (1200-3)	

TDZ/CL Rwy 19L and 28R
REIL Rwy 1L, 1R and 10L
HIRL all Rwy

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 81828 W28A	APP CRS 281°	Rwy Idg 11870 TDZE 13 Apt Elev 13
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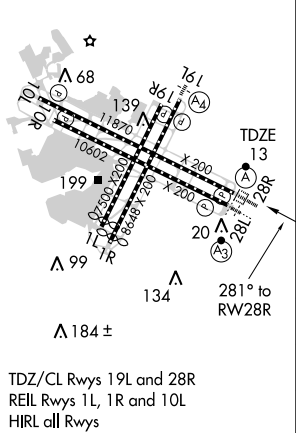
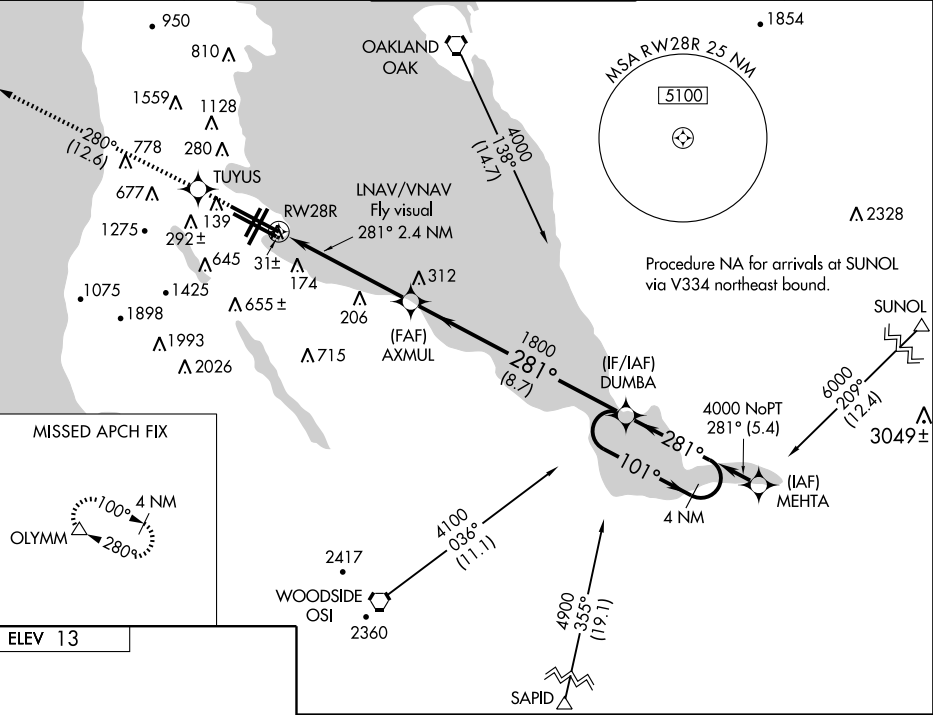
⚠

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -1.5°C (5°F).
Inoperative table does not apply to LNAV/VNAV.
For inoperative ALSF, increase LPV all Cats visibility to RVR 4000.

ALSF-2

MISSED APPROACH: Climb to 3000 direct TUYUS and via 280° track to OLYMM and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CINC DEL 118.2
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3000	TUYUS	280° trk	OLYMM	VGSI and RNAV glidepath not coincident	DUMBA	4 NM Holding Pattern
INAV/VNAV Fly visual 281° 2.4 NM	AXMUL	101° 4 NM	1800	4000	GS 3.00° TCH 55	
* LNAV only	3.1 NM	2.3 NM	8.7 NM			
CATEGORY	A	B	C	D		
LPV DA	263/24 250 (300-1/2)					
LNAV/VNAV DA	822-2	809 (900-2)	822-2 1/4 809 (900-2 1/4)	822-2 1/2 809 (900-2 1/2)		
LNAV MDA	1040/40 1027 (1100-3/4)	1040/50 1027 (1100-1)	1040-2 1/2 1027 (1100-2 1/2)			
CIRCLING	1040-1 1/4 1027 (1100-1 1/4)	1040-1 1/2 1027 (1100-1 1/2)	1040-3 1027 (1100-3)	1160-3 1147 (1200-3)		

SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	10602
101°	TDZE	9
	Apt Elev	13

RNAV (RNP) Y RWY 10R
SAN FRANCISCO INTL (SFO)

T	GPS required.
A NA	For uncompensated Baro-VNAV systems, procedure NA below 2° C (36° F) or above 48° C (120° F).

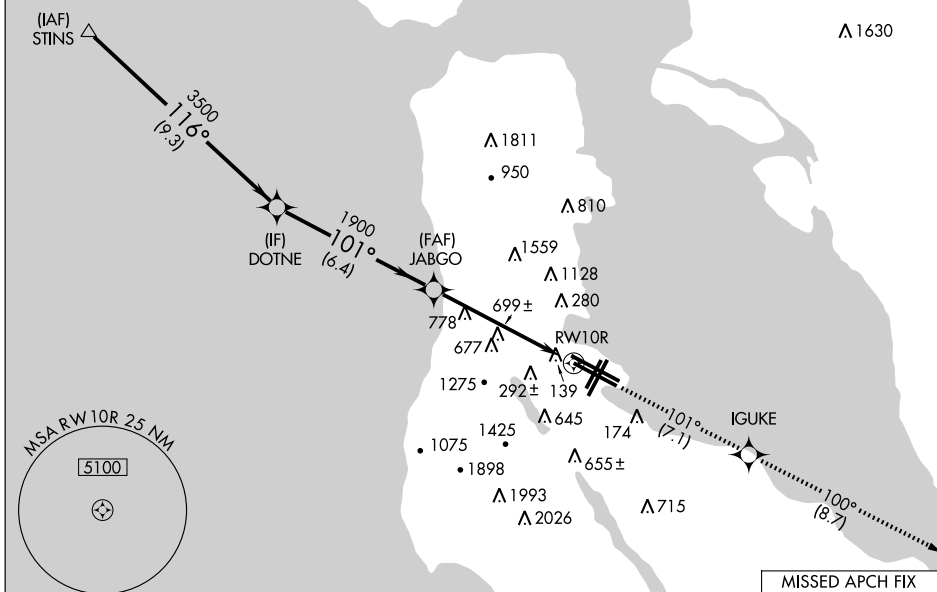
MISSED APPROACH: Climb to 3600 via 101° track to IGUKE and via 100° track to DUMBA and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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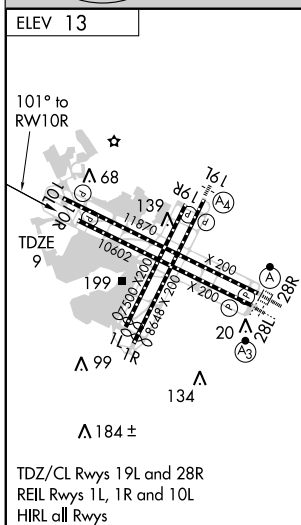
Procedure NA for arrivals at STINS via V27 northbound and via V25-150-199 northwestbound.

1974

A 1630



SW-2. 14 JAN 2010 to 11 FEB 2010



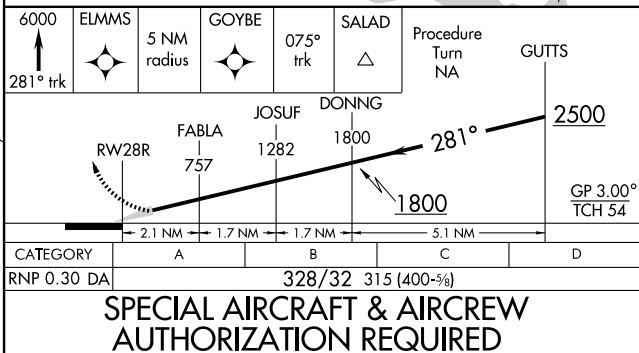
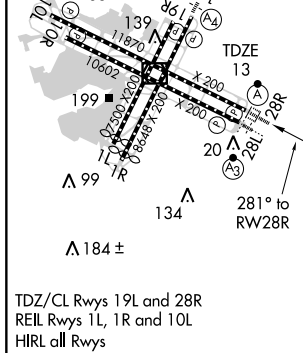
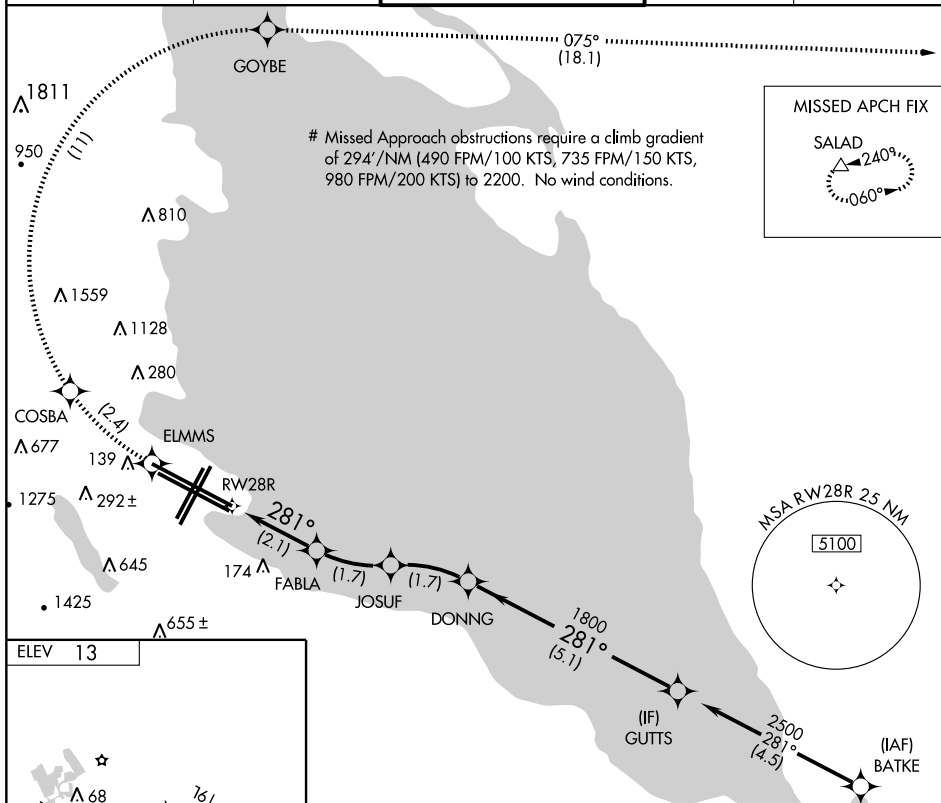
MISSED APCH FIX

Procedure Turn NA	VGS1 and RNAV glidepath not coincident			3600 ↑ 101° trk	IGUKE 	100° trk	DUMBA 
	STINS	DOTNE		JABGO	RW10R		
	3500	116°	3500	101°	1900		
GP 3.00° TCH 60				1900			
	9.3 NM		6.4 NM		5.7 NM		
CATEGORY	A		B		C		D
RNP 0.20 DA			368/60		359 (400-1¼)		
RNP 0.30 DA			1040-4		1031 (1100-4)		

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

SAN FRANCISCO INTL (SFO)

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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SAN FRANCISCO EIGHT DEPARTURE

SL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA

RED BLUFF
115.7 RBL 
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

ATIS
135.45
GND CON
121.8
SAN FRANCISCO TOWER
120.5 269.1
NORCAL DEP CON
120.9 323.2

NOTE: Mt. San Bruno weather information available on 118.05.

NOTE: Rwy 1L/R: DME required; a minimum climb of 500' per NM to 3000' is required.

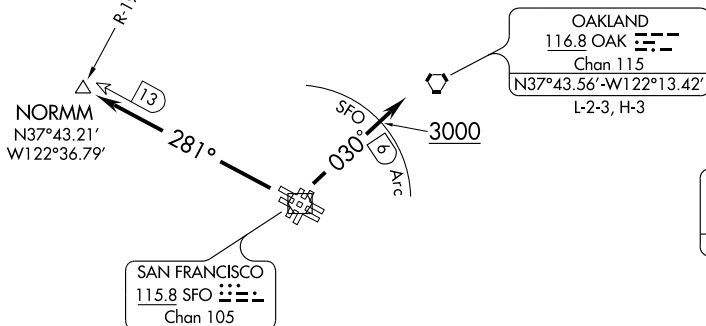
NOTE: Rwy 28L/R: For obstacle clearance a minimum climb of 300' per NM to 2000' is required.

SACRAMENTO
115.2 SAC 
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3

SAUSALITO
116.2 SAU 
Chan 109
N37°51.32'-W122°31.37'
L-2-3, H-3

CONCORD
117.0 CCR 
Chan 117
N38°02.70'-W122°02.71'
L-2-3

LINDEN
114.8 LIN 
Chan 95
N38°04.47'-W121°00.23'
L-2-3, H-3



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1L/R: Climb via heading 030° or as assigned for vector to assigned route/fix. Expect further clearance to filed altitude 10 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Climb via SFO R-281 to NORMMM INT; expect vector to assigned route/fix after NORMMM INT. Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

All runways: If not in contact with departure control after reaching 3000', continue climb to filed altitude and proceed direct to assigned route/fix.

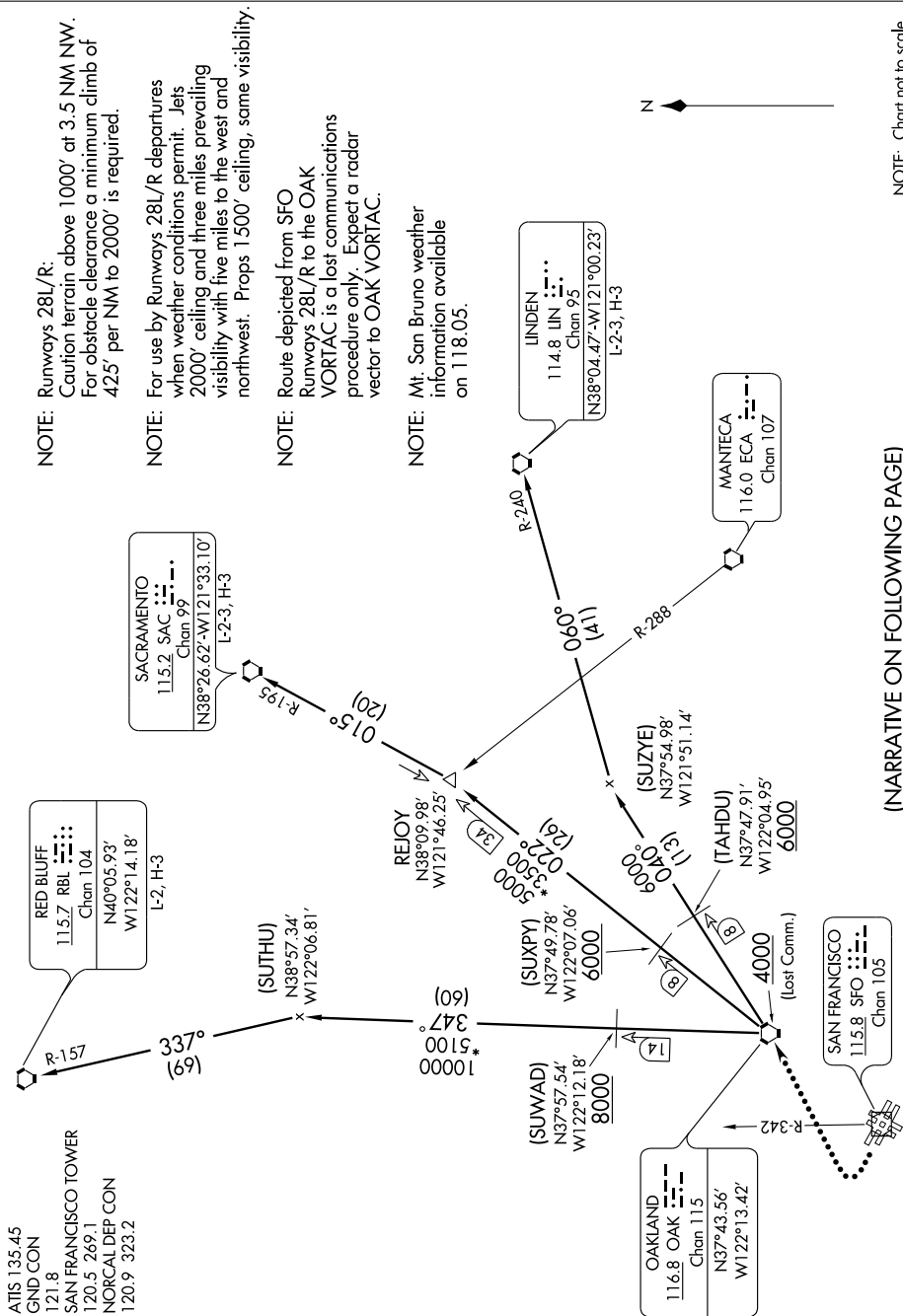
NOTE: Runways 28L/R:
Caution terrain above 1000' at 3.5 NM NW.
For obstacle clearance a minimum climb of
425' per NM to 2000' is required.

NOTE: For use by Runways 28L/R departures when weather conditions permit. Jets 2000' ceiling and three miles prevailing visibility with five miles to the west and northwest. Props 1500' ceiling, same visibility.

NOTE: Route depicted from SFO Runways 28L/R to the OAK VORTAC is a lost communications procedure only. Expect a radar vector to OAK VORTAC.

NOTE: Mt. San Bruno weather information available on 118.05.

NOTE: Chart not to scale.



(NARRATIVE ON FOLLOWING PAGE)

SW-2. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 28L/R: Turn right heading 040° or as assigned, for vector to OAK VORTAC. Then via (transition) or (assigned route). Expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

Take-off runways 28L/R: If not in contact with departure control one minute after crossing the SFO R-342, proceed direct to OAK VORTAC. Cross OAK VORTAC at or above 4000'.

LINDEN TRANSITION (SHORT.LIN): Climb via OAK R-040 and LIN R-240 to LIN VORTAC. Cross the OAK R-040 8 DME fix at or above 6000'. Thence via (assigned route).

RED BLUFF TRANSITION (SHORT.RBL): Climb via OAK R-347 and RBL R-157 to RBL VORTAC. Cross the OAK R-347 14 DME fix at or above 8000'. Maintain (assigned altitude) or (flight level). Thence via (assigned route).

SACRAMENTO TRANSITION (SHORT.SAC): Climb via OAK R-022 and SAC R-195 to SAC VORTAC. Cross the OAK R-022 8 DME fix at or above 6000'. Maintain (assigned altitude) or (flight level). Thence via (assigned route).

STINS ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO INTL
SAN FRANCISCO, CALIFORNIA

NORCAL APP CON
133.95 317.6
ATIS
113.7 118.85

FORTUNA
114.0 FOT
Chan 87
N40°40.28'-W124°14.07'
L-2, H-3

ROSEBURG
108.2 RBG
Chan 19
N43°10.95'-W123°21.14'
L-1, H-1

MUSTANG
117.9 FMG
Chan 126
N39°31.88'-W119°39.36'
L-9, H-3

RED BLUFF
115.7 RBL
Chan 104
N40°05.93'-W122°14.18'
L-2, H-3

MENDOCINO
112.3 ENI
Chan 70
N39°03.19'-W123°16.45'

FL 180
251°
(58)

WILLIAMS
114.4 ILA
Chan 91
N39°04.27'-W122°01.63'

POINT REYES
113.7 PYE
Chan 84
N38°04.78'-W122°52.07'

SAUSALITO
116.2 SAU
Chan 109

SAN FRANCISCO
115.8 SFO
Chan 105
N37°37.17'-W122°22.43'

VERTICAL NAVIGATION PLANNING INFORMATION

Turbojets expect to cross at 9000'.
Turboprop expect to cross at 7000'

NOTE: Chart not to scale.

FORTUNA TRANSITION (FOT.STINS1): From over FOT VORTAC via FOT R-136 and ENI R-320 to ENI VORTAC. Thence....

MUSTANG TRANSITION (FMG.STINS1): From over FMG VORTAC via FMG R-241 and ILA R-057 to ILA VORTAC, then via ILA R-251 and ENI R-073 to ENI VORTAC. Thence....

RED BLUFF TRANSITION (RBL.STINS1): From over RBL VORTAC via RBL R-200 and ENI R-021 to ENI VORTAC. Thence....

ROSEBURG TRANSITION (RBG.STINS1): From over RBG VOR/DME via RBG R-159 and ENI R-343 to ENI VORTAC. Thence....

.... From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC, thence via PYE R-144 to STINS INT, thence via SFO R-287 to SFO VOR/DME. Expect vector to final approach course.

SAN FRANCISCO, CALIFORNIA

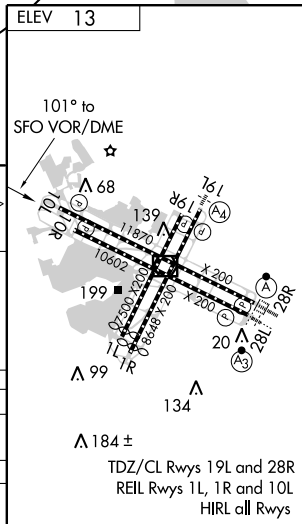
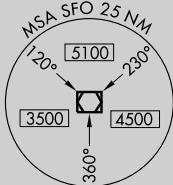
NOTE

MENLO INT
 OAK 16.1
 5000

1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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NOTE: Closely spaced parallel visual approaches may be in progress to Runway 28R utilizing the SFO R-095. In the event of a go-around on Runway 28L, turn left heading 265°, climb and maintain 3000, or as directed by Air Traffic Control.

MISSED APPROACH: Climb to 2100 via SFO R-101 to BRIJ Int/LOM and hold.

CLNC DEL
118.2

VOR/DME SFO

115.8

Chan 105

APP CRS

191°

Rwy Idg

8648

TDZE

11

Apt Elev

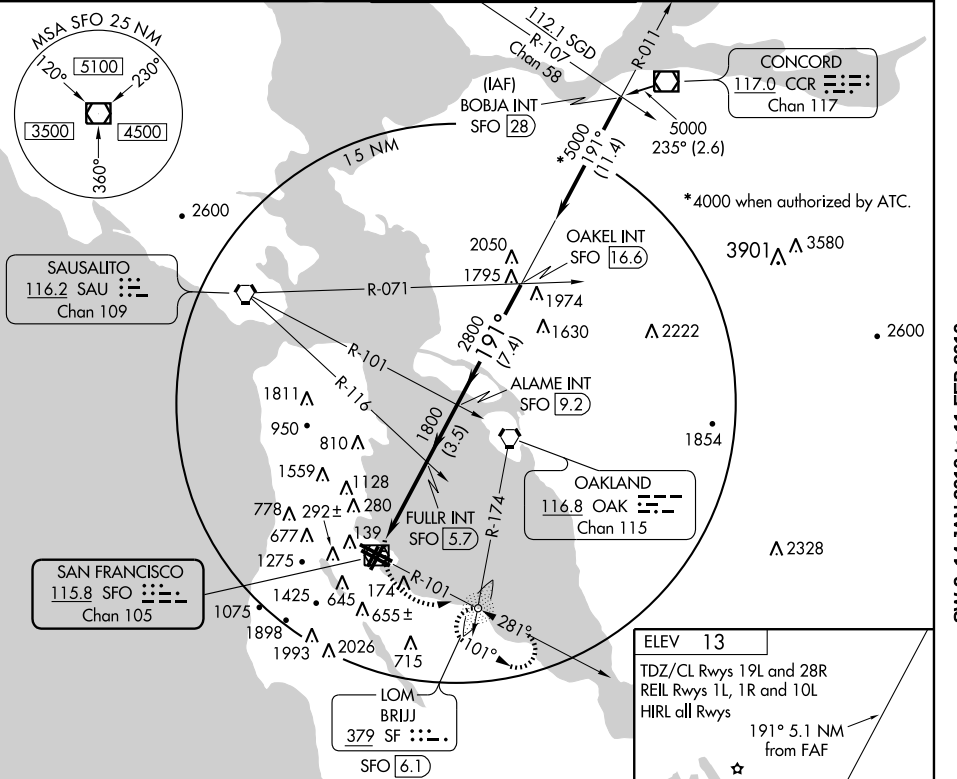
13

SSALS

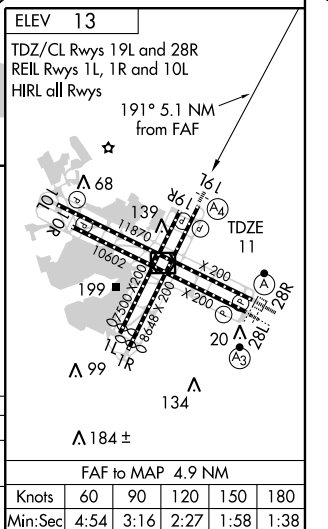
(A4)

MISSED APPROACH: Climbing left turn to 2100 via SFO R-101 to BRIJ INT/LOM and hold.

ATIS 113.7 115.8 118.85 135.45	NORCAL APP CON 134.5 338.2	SAN FRANCISCO TOWER 120.5 269.1	GND CON 121.8	CLNC DEL 118.2
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2100	SF	SFO R-101	379	ALAME INT SFO 9.2	OAKEL INT SFO 16.6
VOR/DME	SFO 0.8	SFO 1.4	FULLR INT SFO 5.7	5000*	Procedure Turn NA
0.2	0.6	4.3 NM	3.5 NM	7.4 NM	
CATEGORY	A	B	C	D	
S-19L	340/40	329 (400-¾)		340/50	329 (400-1)
CIRCUING	760-1 747 (800-1)	940-1¼ 927 (1000-1¼)	1040-3 1027 (1100-3)	1260-3 1247 (1300-3)	

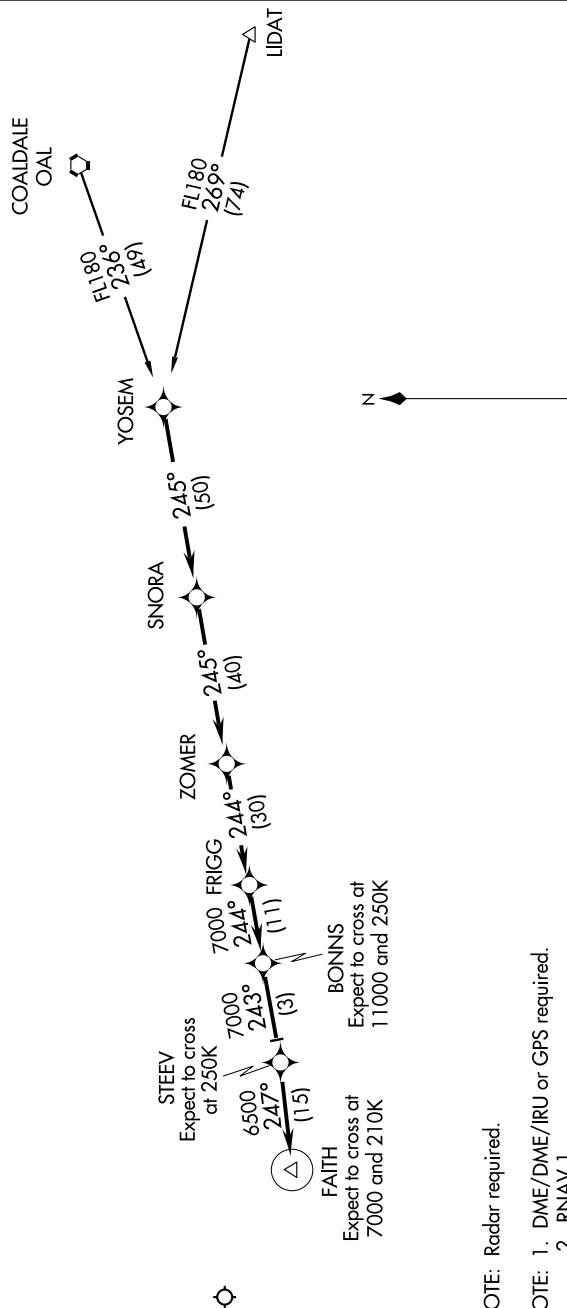


ATIS
113.7 118.85
NORCAL APP CON
128.325 254.3

COALDALE TRANSITION (OAL.YOSEM1)

LIDAT TRANSITION (LIDAT.YOSEM1)

From YOSEM via 245° track to SNORA, thence as depicted to FAITH. Expect radar vectors to final approach course.



NOTE: Radar required.

NOTE: 1. DME/DME/IRU or GPS required.
2. RNAV 1

NOTE: Chart not to scale.

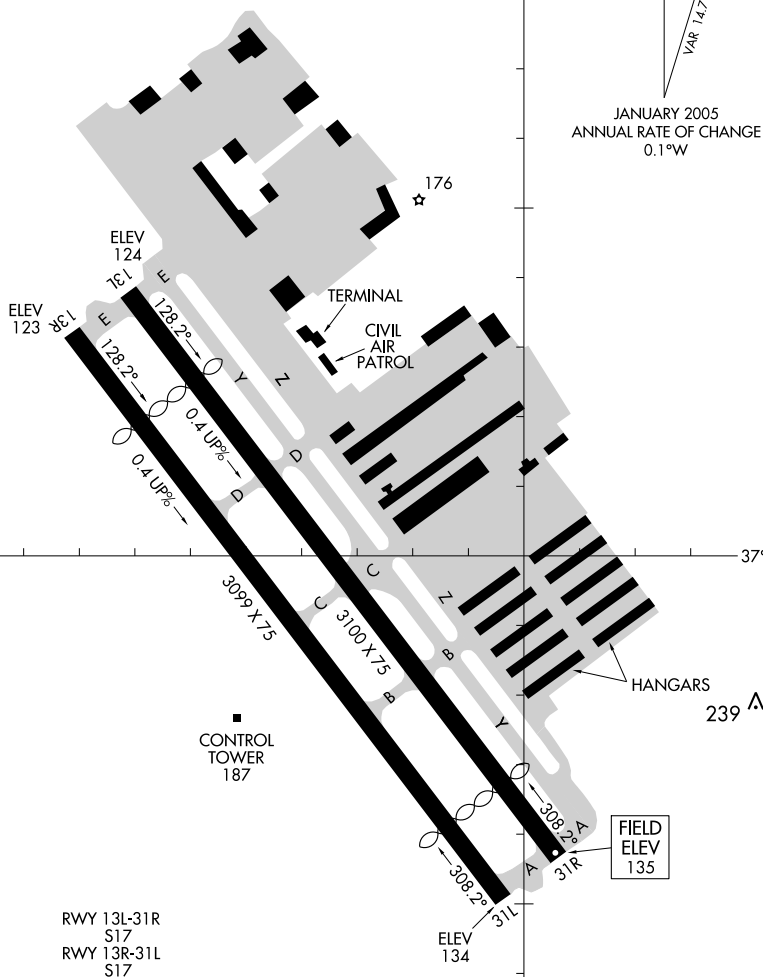
AIRPORT DIAGRAM

SAN JOSE/REID-HILLVIEW OF SANTA CLARA COUNTY (RHV)
AL-5591 (FAA) SAN JOSE, CALIFORNIA

ATIS
125.2
REID-HILLVIEW TOWER ★
119.8 (RWY 13L-31R)
126.1 (RWY 13R-31L)
GND CON
121.65

37°20.5'N

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W



37°20'N

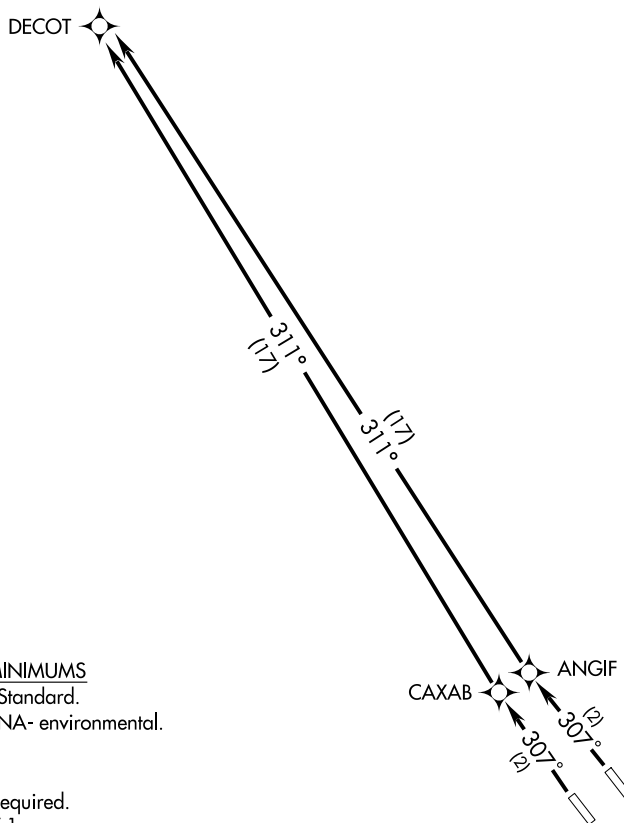
SW-2 14 JAN 2010 to 11 FEB 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

121°49.5'W

121°49'W

NORCAL DEP CON
121.3 270.35



TAKE-OFF MINIMUMS

Rwy 31L/R: Standard.

Rwy 13L/R: NA- environmental.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Rwy 31L/R: Trees 1070 feet from departure end of runway,
500 feet right and left of centerline, 173 and 169 feet MSL.

NOTE: Rwy 31R: Light 125 feet from departure end of runway,
370 feet right of centerline, 159 MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 31L: Climb to 4000 via 307° course to CAXAB WP and 311° track to DECOT WP. Then via assigned route.

TAKE-OFF RUNWAY 31R: Climb to 4000 via 307° course to ANGIF WP and 311° track to DECOT WP. Then via assigned route.

TAKE-OFF RWY 13L/13R: NA.

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

APP CRS
307°

Rwy Idg
TDZE
Apt Elev

2690
131
133

SAN JOSE/REID-HILLVIEW OF SANTA CLARA COUNTY (R.H.V)

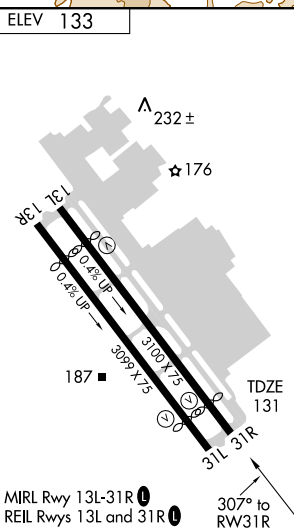
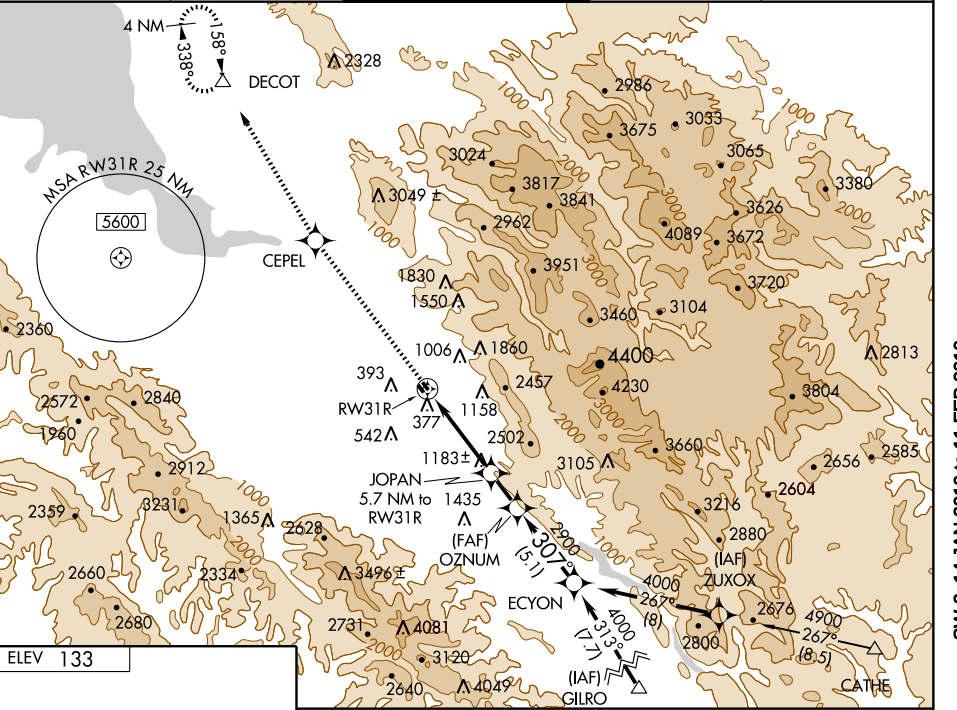
When control tower closed, use San Jose Intl altimeter setting.

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

Circling east of Rwy 13L-31R at night not authorized.

MISSED APPROACH: Climb to 4000 via 307° course to CEPEL WP and 313° course to DECOT WP and hold.

ATIS 125.2	NORCAL APP CON 120.1 290.25	REID-HILLVIEW TOWER★ (Rwy 13L-31R) (Rwy 13R-31L) 119.8 (CTAF) 126.1	GND CON 121.65	UNICOM 122.95
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4000
307°

CEPEL

DECOT

313°

VGSI and descent angles not coincident.

JOPAN 5.7 NM to RWY 31R

ECYON

RWY 31R

3.20°

TCH 40

2100

2900

307°

4000

Procedure Turn NA

5.7 NM

2.3 NM

5.1 NM

CATEGORY	A	B	C	D
RNAV MDA	1440-1¼ 1309 (1400-1¼)	1440-1½ 1309 (1400-1½)	NA	
CIRCLING	1440-1¼ 1307 (1400-1¼)	1440-1½ 1307 (1400-1½)	NA	

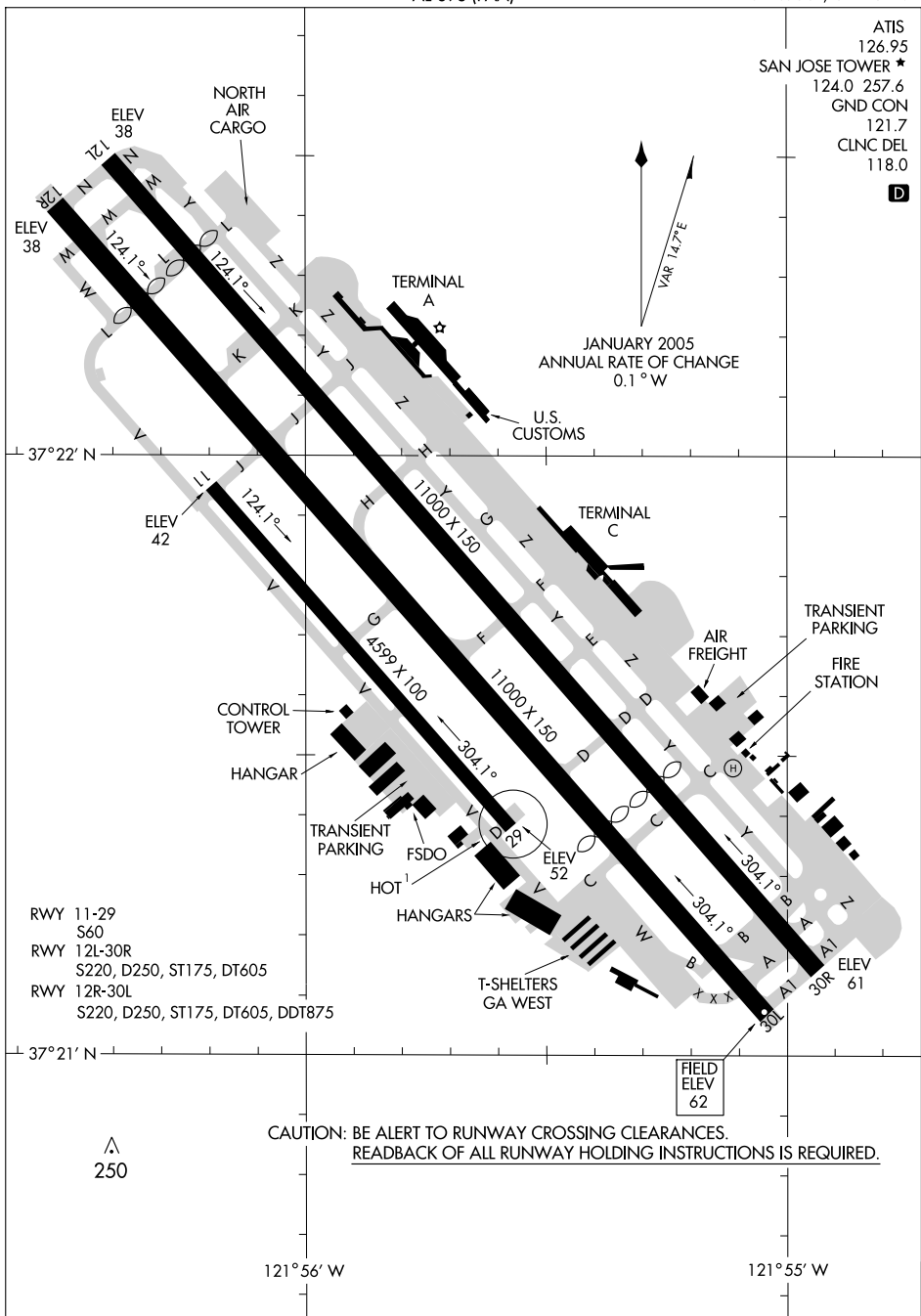
SAN JOSE INTL ALTIMETER SETTING MINIMUMS

RNAV MDA	1460-1¼ 1329 (1400-1¼)	1460-1½ 1329 (1400-1½)	NA	
CIRCLING	1460-1¼ 1327 (1400-1¼)	1460-1½ 1327 (1400-1½)	NA	

SW-2, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

SAN JOSE/NORMAN Y. MINETA SAN JOSE INTL (SJC)
AL-693 (FAA) SAN JOSE, CALIFORNIA



ALTAM SEVEN DEPARTURE

SL-693 (FAA)

SAN JOSE, CALIFORNIA

ATIS 126.95

CLNC DEL

118.0

GND CON

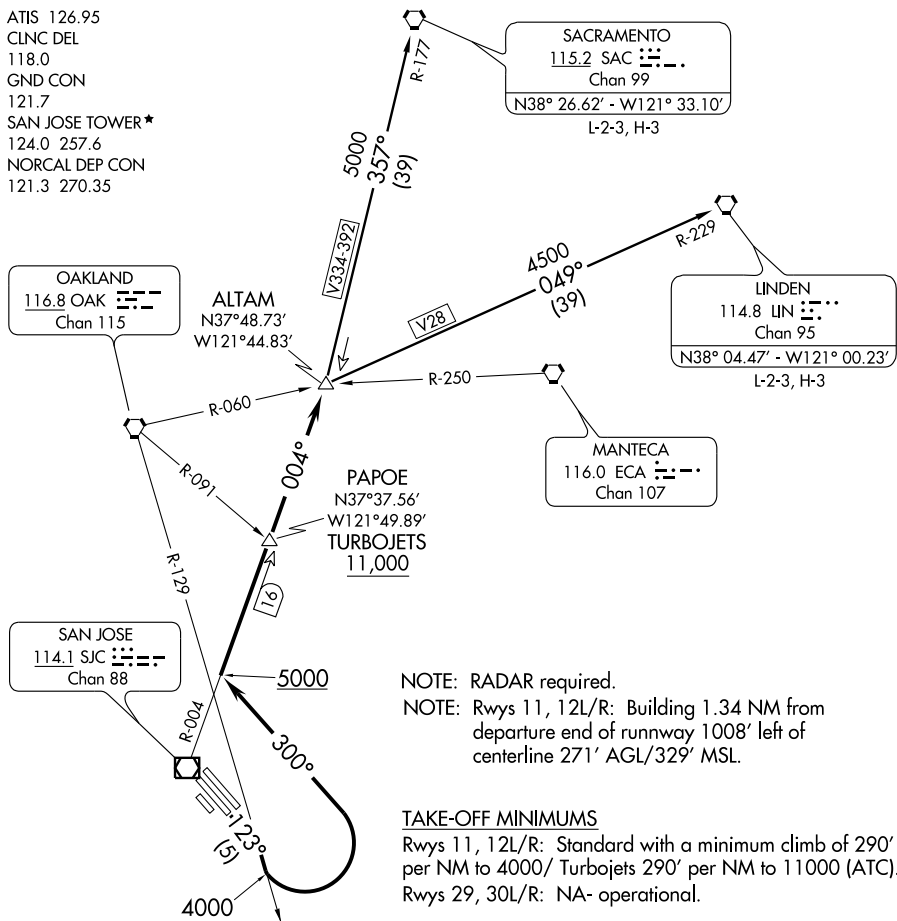
121.7

SAN JOSE TOWER ★

124.0 257.6

NORCAL DEP CON

121.3 270.35



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L/R: Climb via heading 123° to intercept and proceed via OAK R-129 to 4000', then turn left heading 300° to intercept SJC R-004 at or above 5000'. Proceed via SJC R-004 to ALTAM INT. Turbojets cross PAPOE INT/SJC 16 DME at or above 11,000'. Then via (transition) or (assigned route). Aircraft filing FL240 and above expect further clearance to filed altitude 10 minutes after departure.

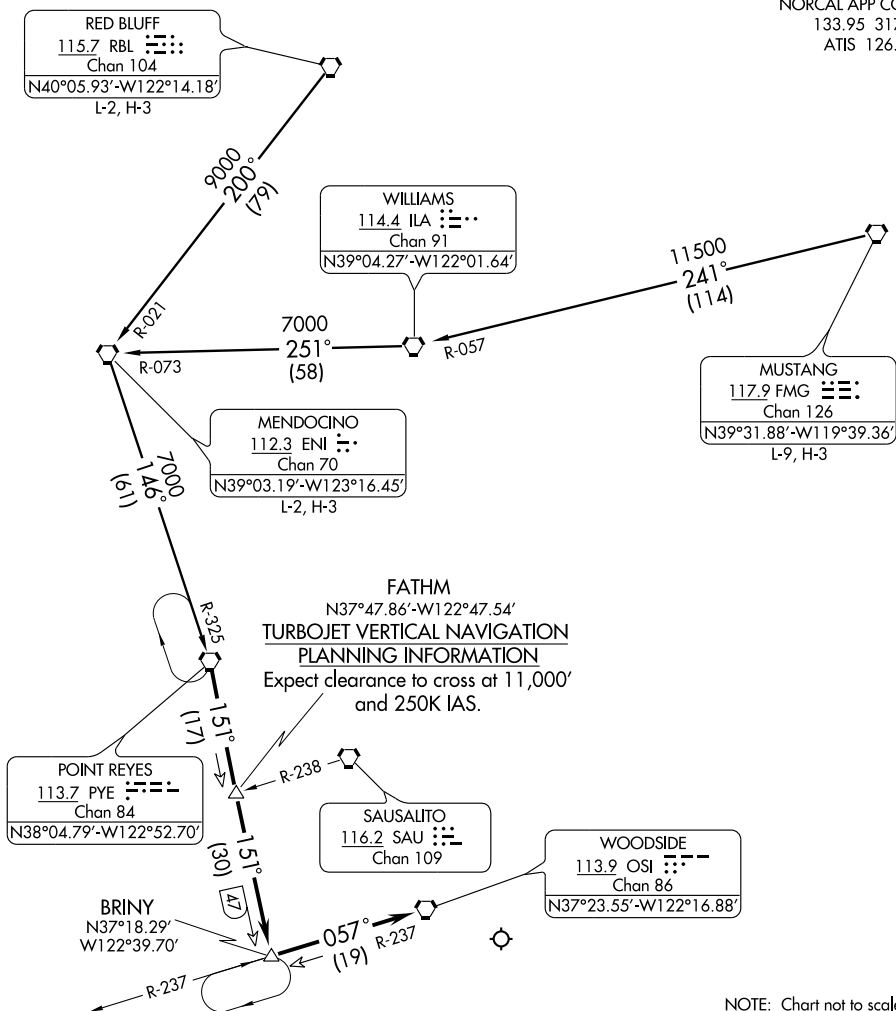
TAKE-OFF RUNWAYS 29, 30L/R: Not Authorized.

LINDEN TRANSITION (ALTAM7.LIN): From over ALTAM INT via LIN R-229 to LIN VORTAC.

SACRAMENTO TRANSITION (ALTAM7.SAC): From over ALTAM INT via SAC R-177 to SAC VORTAC.

BRINY ONE ARRIVAL

ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIANORCAL APP CON
133.95 317.6
ATIS 126.95

NOTE: Chart not to scale.

MENDOCINO TRANSITION (ENI.BRINY1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence . . .

MUSTANG TRANSITION (FMG.BRINY1): From over FMG VORTAC via FMG R-241 to ILA VORTAC then via ILA R-251 to ENI VORTAC, then via ENI R-146 to PYE VORTAC. Thence . . .

RED BLUFF TRANSITION (RBL.BRINY1): From over RBL VORTAC via RBL R-200 and ENI R-146 to PYE VORTAC. Thence . . .

. . . From over PYE VORTAC via PYE R-151 to BRINY INT/DME, then via OSI R-237 to OSI VORTAC. Expect radar vectors to Rwy 12R final approach course.

CAPITOL THREE ARRIVAL

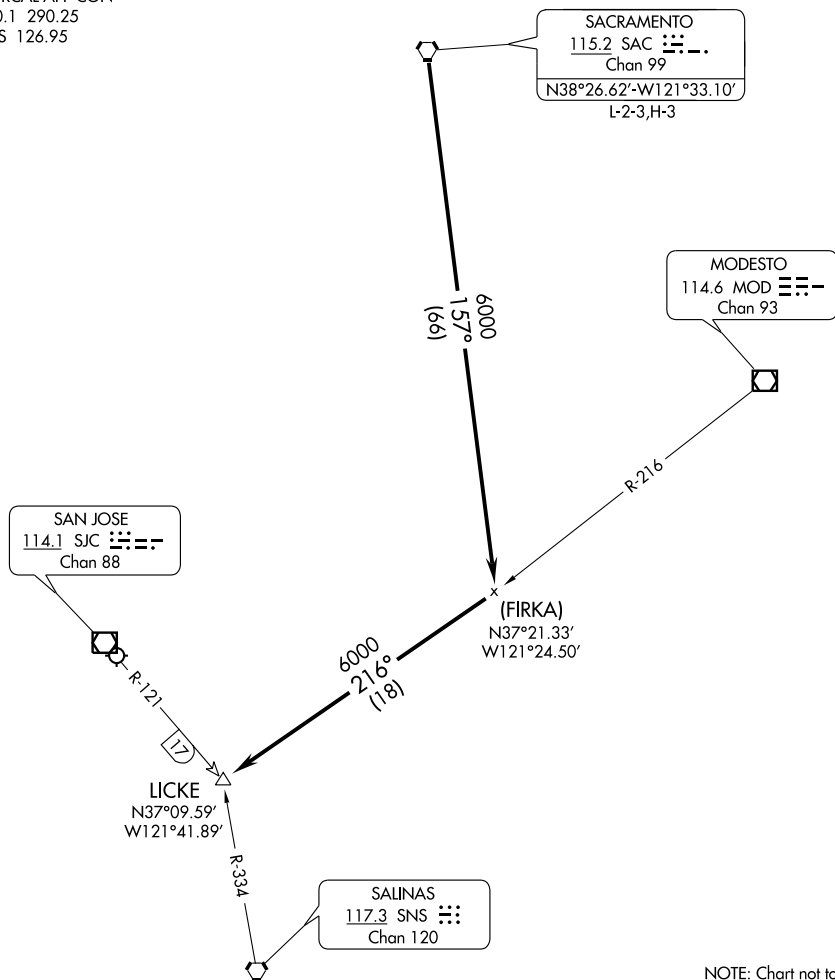
ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIA

NORCAL APP CON

120.1 290.25

ATIS 126.95

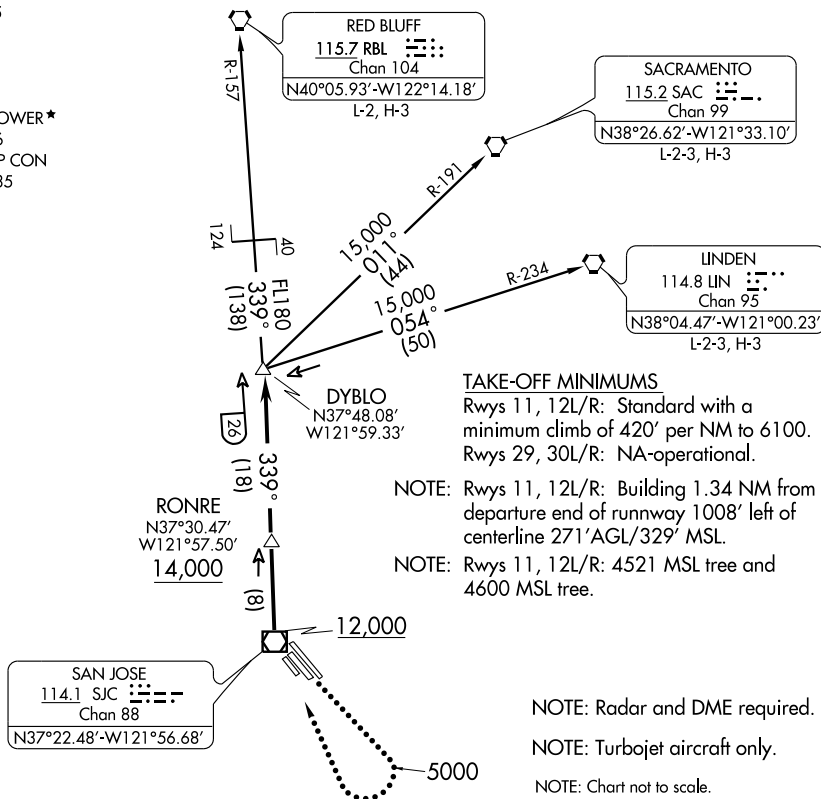


NOTE: Chart not to scale

From over SAC VORTAC via SAC R-157 to intercept and proceed via MOD R-216 to LICKE INT. Then via radar vector to San Jose Intl Airport.

DANVILLE TWO DEPARTURE

ATIS 126.95
CLNC DEL
118.0
GND CON
121.7
SAN JOSE TOWER ★
124.0 257.6
NORCAL DEP CON
121.3 270.35



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 29, 30L/R: NA.

TAKE-OFF RUNWAYS 11, 12L/R: Climb via runway heading for vector to SJC VOR/DME, then via SJC R-339 to DYBLO INT, thence via (transition) or (assigned route). Cross SJC VOR/DME at or above 12,000'. Cross RONRE/8 DME at or above 14,000', maintain assigned altitude. Aircraft filing FL240 and above expect further clearance to filed altitude after passing SJC VOR/DME.

LOST COMMUNICATIONS:

Runways 11, 12L/R: If not in contact with departure control after reaching 5000', turn right direct SJC VOR/DME thence via SJC VOR/DME R-339 to DYBLO INT, thence via (transition) or (assigned route). Cross SJC VOR/DME at or above 12,000', cross RONRE/8 DME at or above 14,000', then climb to filed altitude.

LINDEN TRANSITION (DANV2.LIN): From over DYBLO INT via LIN R-234 to LIN VORTAC.

RED BLUFF TRANSITION (DANV2.RBL): From over DYBLO INT via SJC R-339 and RBL R-157 to RBL VORTAC.

SACRAMENTO TRANSITION (DANV2.SAC): From over DYBLO INT via SAC R-191 to SAC VORTAC.

EL NIDO FIVE ARRIVAL

ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIA

NORCAL APP CON

126.475 317.775

ATIS 126.95

COALDALE TRANSITION (OAL:HYP5): From over OAL VORTAC via OAL R-216 and HYP R-067 to HYP VOR/DME. Thence

MUSTANG TRANSITION (FMG:HYP5): From over FMG VORTAC via FMG R-167 and CZQ R-348 to ELCAP INT, then via HYP R-032 to HYP VOR/DME. Thence

. From over HYP VOR/DME via HYP R-240 to PAPEE DME fix, then via HYP R-240 to TORCH DME fix, thence via SJC R-121 to GILRO INT. Expect the ILS Rwy 30L Approach.

For Rwy 12 Operations: Expect radar vectors to final approach course.

TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect clearance to cross PAPEE
at or below 12000', and to cross 25 NM
southeast of SJC VOR/DME at 8000'.

TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect clearance to cross
at or below FL 240.

TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect clearance to cross
at or below FL 240.

NOTE: Chart not to scale.

SW-2, 14 JAN 2010 to 11 FEB 2010

N

SAN JOSE
114.1 SJC
Chan 88

EL NIDO
114.2 HYP
Chan 89
N37°13.17'-W120°24.01'

GILRO
N37°02.77'
W121°34.11'

PAPEE
N37°08.38'
W120°46.17'

TORCH
N36°58.77'
W121°29.56'

SAINAS
117.3 SNS
Chan 120

PANOCHÉ
112.6 PNX
Chan 73

CLOVIS
112.9 CZQ
Chan 76

COALDALE
117.7 OAL
Chan 124
N38°00.20'-W117°46.23'

MUSTANG
117.9 FMG
Chan 126
N39°31.88'-W119°39.36'

ELCAP
N37°41.17'
W119°46.10'

CANDA
N37°23.38'
W118°47.03'

KNOLLS
N37°17.17'-W119°47.50'

*
FL180
13600
167
(111)

FL210
210
(61)

FL180
247
(49)

FL180
247
(4)

FL180
247
(29)

FL180
247
(18)

FL180
247
(37)

FL180
247
(54)

FL180
247
(32)

FL180
247
(5)

FL180
247
(27)

FL180
247
(32)

FL180
247
(5)

FL180
247
(27)

FL180
247
(32)

FL180
247
(5)

SAN JOSE, CALIFORNIA

SAN JOSE, CALIFORNIA

ATIS 126.95
 NORCAL APP CON
 120.1 290.25
 SAN JOSE TOWER ★
 124.0 (CTAF) 257.6
 GND CON
 121.7
 CLNC DEL
 118.0

Vertical Guidance Navaid
and Angle:
LOC I-SJC GS (3.00°)

MOFFETT
FEDERAL AIRFIELD

SAN JOSE
114.1 SJC $\begin{smallmatrix} \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \end{smallmatrix} = -$
Chap 88

LOCALIZER 110.9

I-SJC

REID-HILLVIEW
OF
SANTA CLARA
COUNTY

SANTA CLARA
COUNTY FAIRGROUNDS
SJC 6.6
2000

IBM
PLANT

CEMENT
PLANT

RATOGA

Re...

PC

~~10~~

L

WIKED

On the
side

n base

VE 2,00

anced po

• **Group**

NOTE: SJC VOR/DME REQUIRED.

RADAR REQUIRED

Weather Minimums: 2500 foot ceiling and 5 miles visibility.

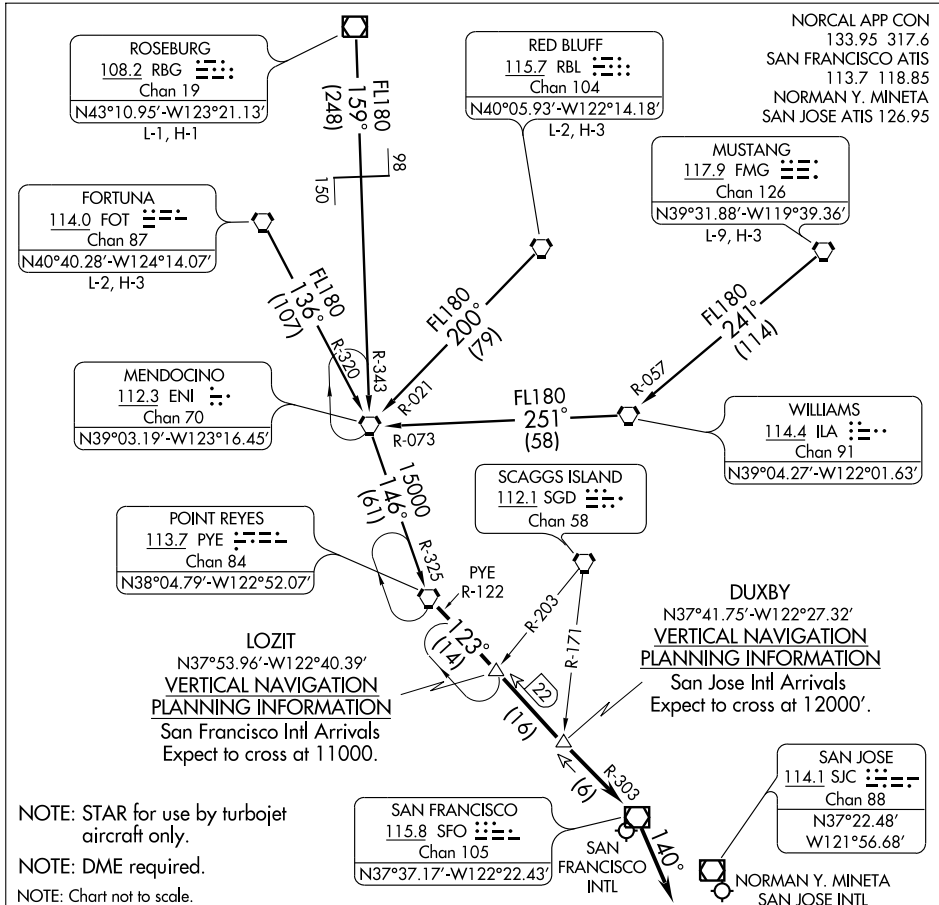
1 NM	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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FAIRGROUNDS VISUAL APPROACH RUNWAYS 30L/R

Turbo-jet aircraft from the west-northwest may be vectored in the vicinity of the Cement Plant for a Fairgrounds Visual Approach.

Aircraft should turn base no closer than SJC R-170. Aircraft should turn final no closer than 6.6 DME at or above 2,000' for noise abatement.

NOTE: Closely spaced parallel visual approaches may be in progress to Runways 30L/R. In the event of a go-around on Runway 30L, proceed straight-ahead heading 300°, or on Runway 30R, turn right heading 120°, climb and maintain 4,000, or as directed by ATC.



FORTUNA TRANSITION (FOT.GOLDN5): From over FOT VORTAC via FOT R-136 and ENI R-320 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

MUSTANG TRANSITION (FMG.GOLDN5): From over FMG VORTAC via FMG R-241 and ILA R-057 to ILA VORTAC, then via ILA R-251 and ENI R-073 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

RED BLUFF TRANSITION (RBL.GOLDN5): From over RBL VORTAC via RBL R-200 and ENI R-021 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

ROSEBURG TRANSITION (RBG.GOLDN5): From over RBG VOR/DME via RBG R-159 and ENI R-343 to ENI VORTAC, then via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

....From over PYE VORTAC via SFO R-303 to SFO VOR/DME, then via heading 140° (MEA 6000). Expect vectors to final approach course.

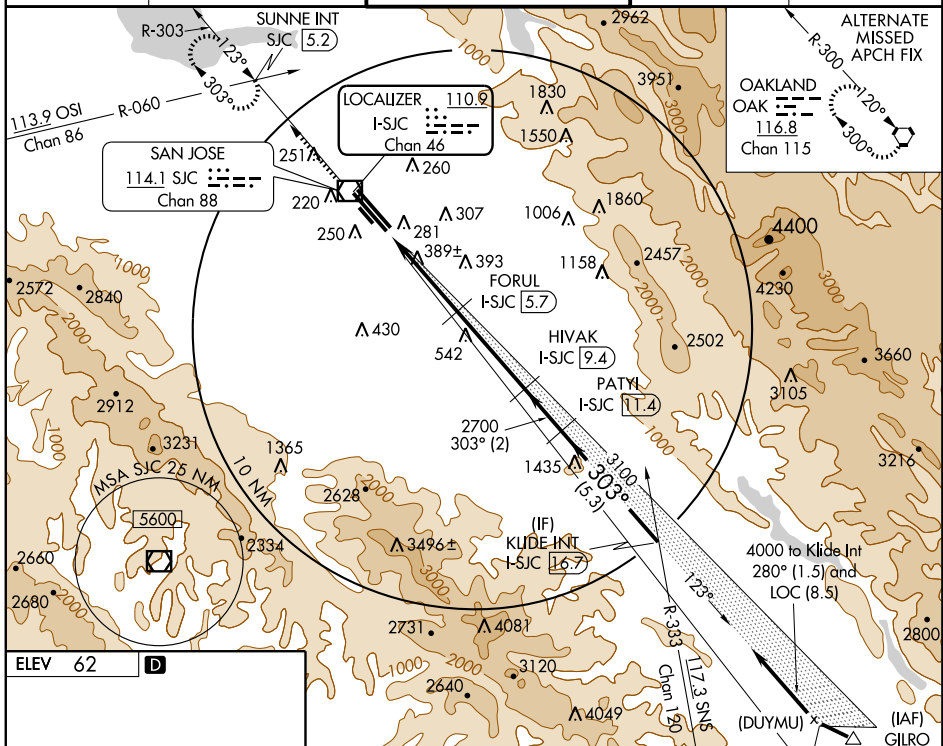
LOST COMMUNICATIONS: San Jose Intl: After SFO VOR/DME proceed direct SJC VOR/DME. (MEA 6000).

LOC I-SJC 110.9 Chan 46	APP CRS 303°	Rwy Idg 30L TDZE Apt Elev	7605 57 62	Rwy Idg 30R TDZE Apt Elev	7479 55 62	Rwy Idg 29 TDZE Apt Elev	4599 52 62
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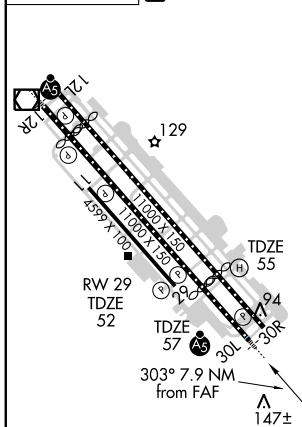
SAN JOSE / NORMAN Y.
MINETA SAN JOSE INTL (SJC)

▼ ▲ DME required. * RVR 1800 authorized with the use of FD or AP or HUD to DA.	MALSR Rwy 30L	MISSED APPROACH: Climb to 1900 via the SJC R-303 to SUNNE Int and hold.
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ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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ELEV 62 **D**



REIL Rwy 12L and 29
MIRL Rwy 11-29 **1**
HIRL Rwy 12L-30R and 12R-30L **1**

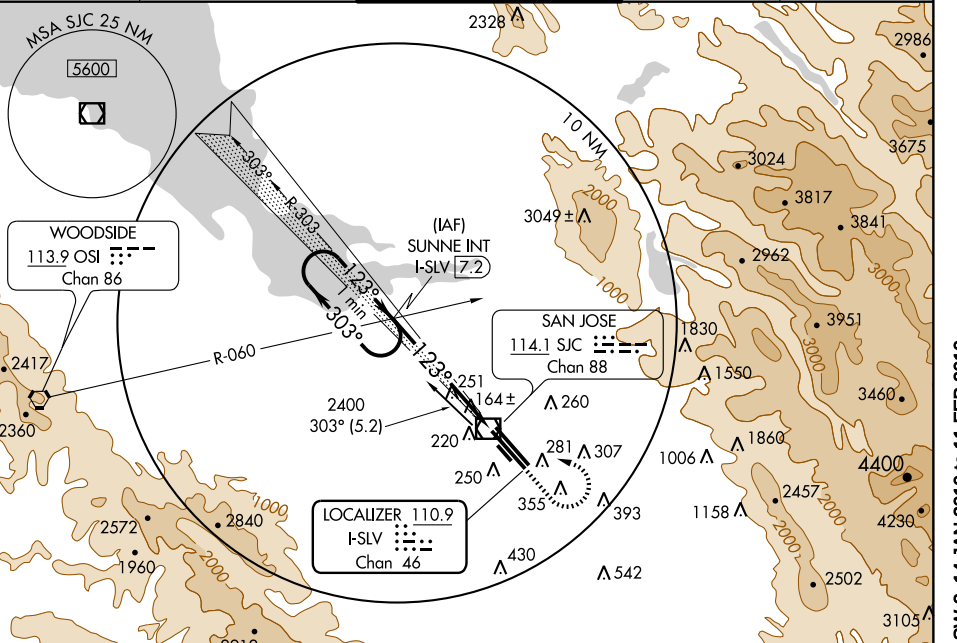
	1900 SJC R-303	SUNNE INT	HIVAK I-SJC [9.4]	PATYI I-SJC [11.4]	KLIDE INT I-SJC [16.7]	Procedure Turn NA
		FORUL I-SJC [5.7]	2700	3100	4000	GS 3.00° TCH 55
			1480	2700		VGSI and ILS glidepath not coincident.
			4.3 NM	3.7 NM	2 NM	5.3 NM
CATEGORY	A	B	C	D		
S-ILS 30L	*257/24 200 (200-½)					
S-LOC 30L	640/24	583 (600-½)	640/50 583 (600-1)	640/60 583 (600-1¼)		
SIDESTEP RWY 29	640-1	588 (600-1)	640-1½ 588 (600-1½)	640-2 588 (600-2)		
SIDESTEP RWY 30R	640-1	585 (600-1)	640-1½ 585 (600-1½)	640-2 585 (600-2)		
CIRCLING	NA					

▼
▲

MALSR
Rwy 12R
A5

MISSED APPROACH: Climb to 900 then climbing left turn to 2000 direct SJC VOR/DME and R-303 to SUNNE Int and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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One Minute Holding Pattern

SUNNE INT I-SLV 7.2

900 2000 SJC 114.1 SUNNE INT

VGSI and ILS glidepath not coincident

1900 303° 123° 1900

GS 3.00° TCH 59

5.6 NM

CATEGORY	A	B	C	D
S-ILS 12R	258-½ 212 (200-½)			
S-LOC 12R	420-½ 374 (400-½)			
SIDESTEP RWY 12L	420-1 376 (400-1)	420-1½ 376 (400-1½)		420-2 374 (400-¾)
SIDESTEP RWY 11	480-1 431 (500-1)	480-1½ 431 (500-1½)		480-2 431 (500-2)
CIRCLING	NA			

ELEV 62 D

123° 5.6 NM from FAF

TDZE 44

TDZE 46

TDZE 49

1100X30

1000X30

4599X100

30L 30R

REIL Rwy 12L and 29

MIRL Rwy 11-29

HIRL Rwy 12L-30R and 12R-30L

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

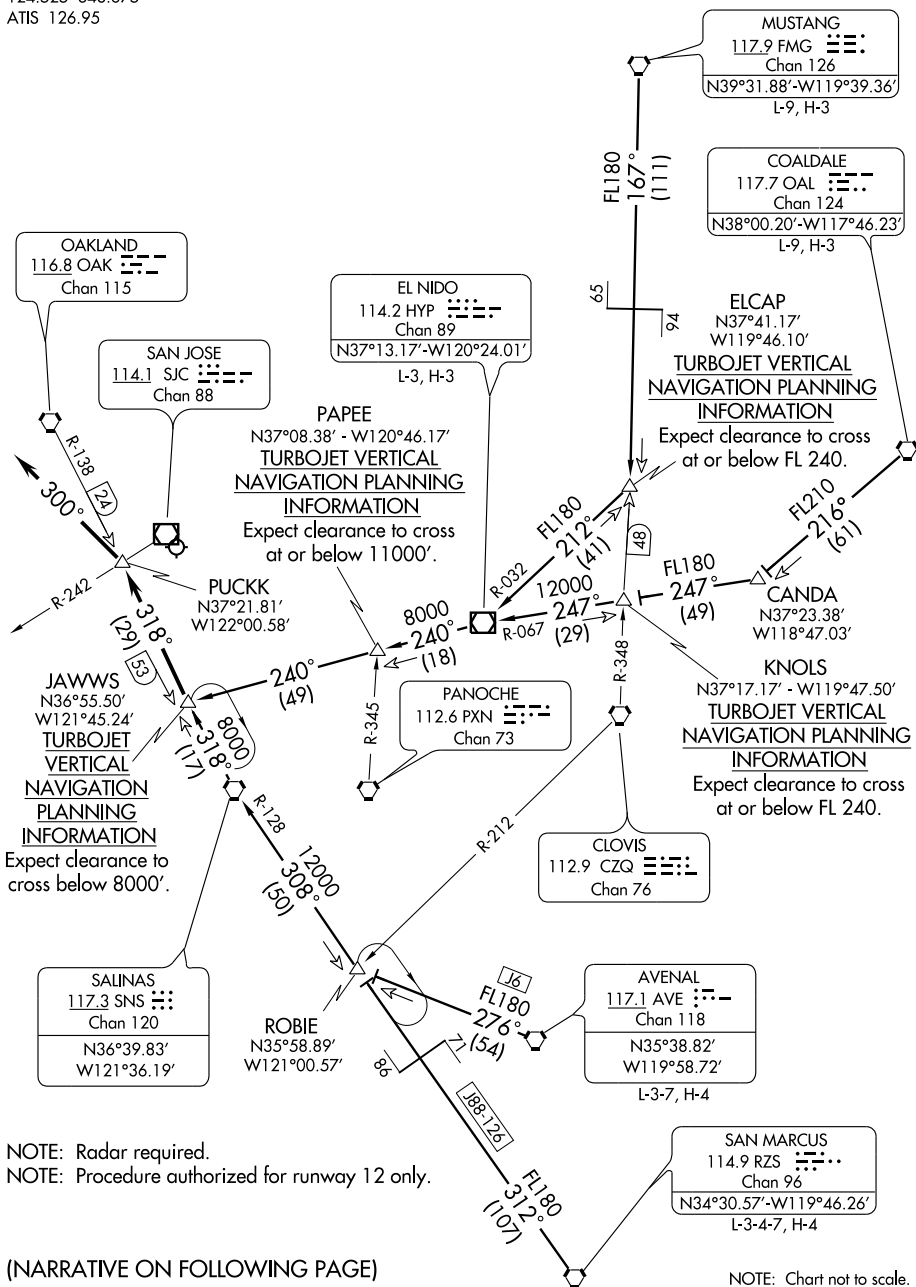
SW-2, 14 JAN 2010 to 11 FEB 2010

JAWWS TWO ARRIVAL

ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIA

NORCAL APP CON
124.525 348.675
ATIS 126.95



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.JAWWS2): From over AVE VORTAC via AVE R-276 to ROBIE INT, then via SNS R-128 to SNS VORTAC, then via SNS R-318 to JAWWS INT. Thence

COALDALE TRANSITION (OAL.JAWWS2): From over OAL VORTAC via OAL R-216 and HYP R-067 to HYP VOR/DME, then via HYP R-240 to JAWWS INT. Thence

EL NIDO TRANSITION (HYP.JAWWS2): From over HYP VOR/DME via HYP R-240 to PAPEE INT then via HYP R-240 to JAWWS INT.

Thence

MUSTANG TRANSITION (FMG.JAWWS2): From over FMG VORTAC via FMG R-167 to ELCAP INT, then via HYP R-032 to HYP VOR/DME, then via HYP R-240 to JAWWS INT. Thence

SAN MARCUS TRANSITION (RZS.JAWWS2): From over RZS VORTAC via RZS R-312 and SNS R-128 to SNS VORTAC, then via SNS R-318 to JAWWS INT. Thence

. . . . From over JAWWS INT via OAK R-138 to PUCKK INT, thence via heading 300°, expect radar vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communications proceed direct to SJC VOR/DME and execute runway 12R ILS approach.

LOUPE ONE DEPARTURE

ATIS 126.95

CLNC DEL

118.0

GND CON

121.7

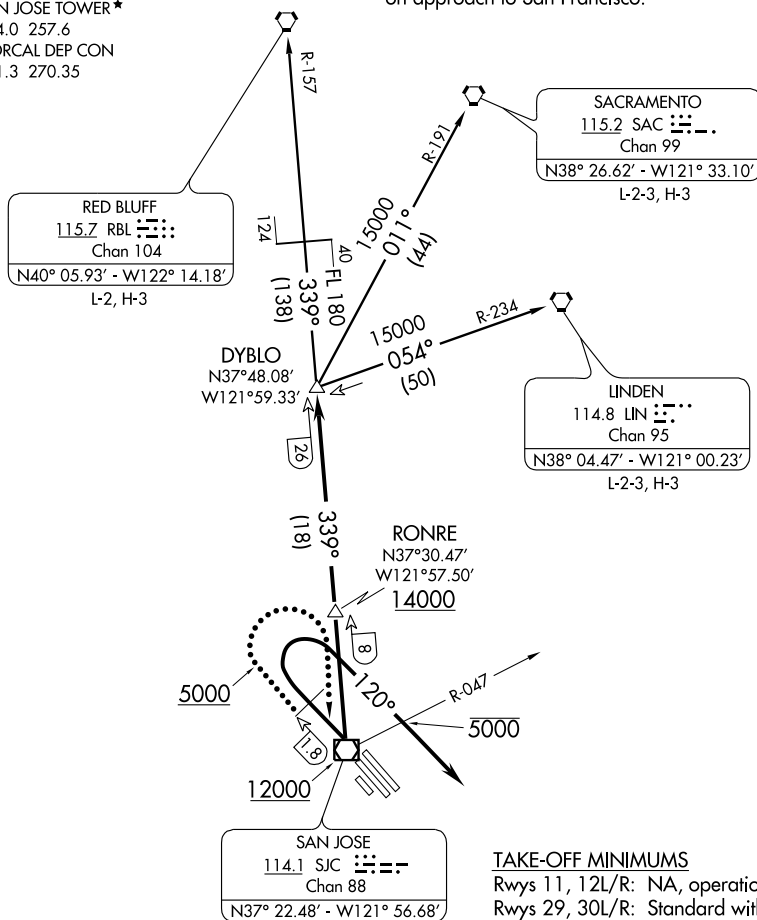
SAN JOSE TOWER ★

124.0 257.6

NORCAL DEP CON

121.3 270.35

ALERT: SJC R-047 5000' crossing
restriction protects aircraft descending
on approach to San Francisco.



NOTE: Rwy 29, tree 2254' from departure end of runway 113' left of centerline 63' AGL 102' MSL.
NOTE: Rwy 30L, pole 1739' from departure end of runway 743' left of centerline 55' AGL/91' MSL.
NOTE: Rwy 30R, pole 963' from departure end of runway 133' right of centerline 49' AGL/85' MSL.
NOTE: Rwys 29, 30L/R, 3043 MSL tower.

NOTE: Radar and DME Required.

NOTE: Turbojet aircraft only.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

LOUPE ONE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L: NA.

TAKE-OFF RUNWAYS 29, 30L/R: Climb runway heading at SJC 1.8 DME northwest of SJC VOR/DME turn right heading 120°, maintain 5000, for radar vectors to SJC VOR/DME, then via SJC R-339 to DYBLO INT, Thence....

....via (transition) or (assigned route). Cross SJC R-047 at or below 5000, cross SJC VOR/DME at or above 12000, cross RONRE/8 DME at or above 14000, maintain assigned altitude. Aircraft filing FL240 and above expect further clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS:

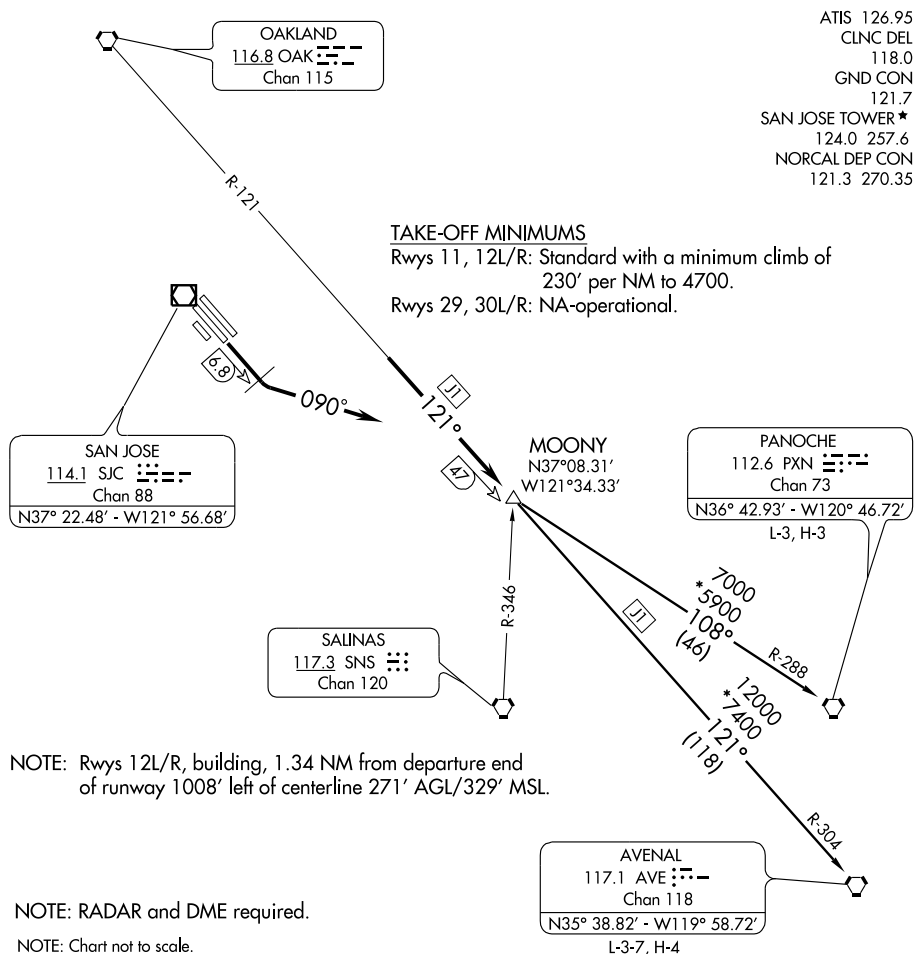
Runways 29, 30L/R: If not in contact with departure control after reaching 5000' turn right direct SJC VOR/DME thence via SJC VOR/DME R-339 to DYBLO INT, thence via (transition) or (assigned route). Cross SJC VOR/DME at or above 12000, cross RONRE/8 DME at or above 14000, then climb to filed altitude.

LINDEN TRANSITION (LOUPE1.LIN): From over DYBLO INT via LIN R-234 to LIN VORTAC.

RED BLUFF TRANSITION (LOUPE1.RBL): From over DYBLO INT via SJC R-339 and RBL R-157 to RBL VORTAC.

SACRAMENTO TRANSITION (LOUPE1.SAC): From over DYBLO INT via SAC R-191 to SAC VORTAC.

MOONY TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 29, 30L/R: NA.

TAKE-OFF RUNWAYS 11, 12L/R: Climb runway heading upon leaving 3000 and not prior to SJC 6.8 DME southeast of SJC VOR/DME, turn left heading 090° to intercept and proceed via OAK R-121 to MOONY INT/OAK 47 DME. Thence....

....via (transition) or (assigned route). Aircraft filing FL240 or above expect further clearance to filed altitude ten minutes after departure.

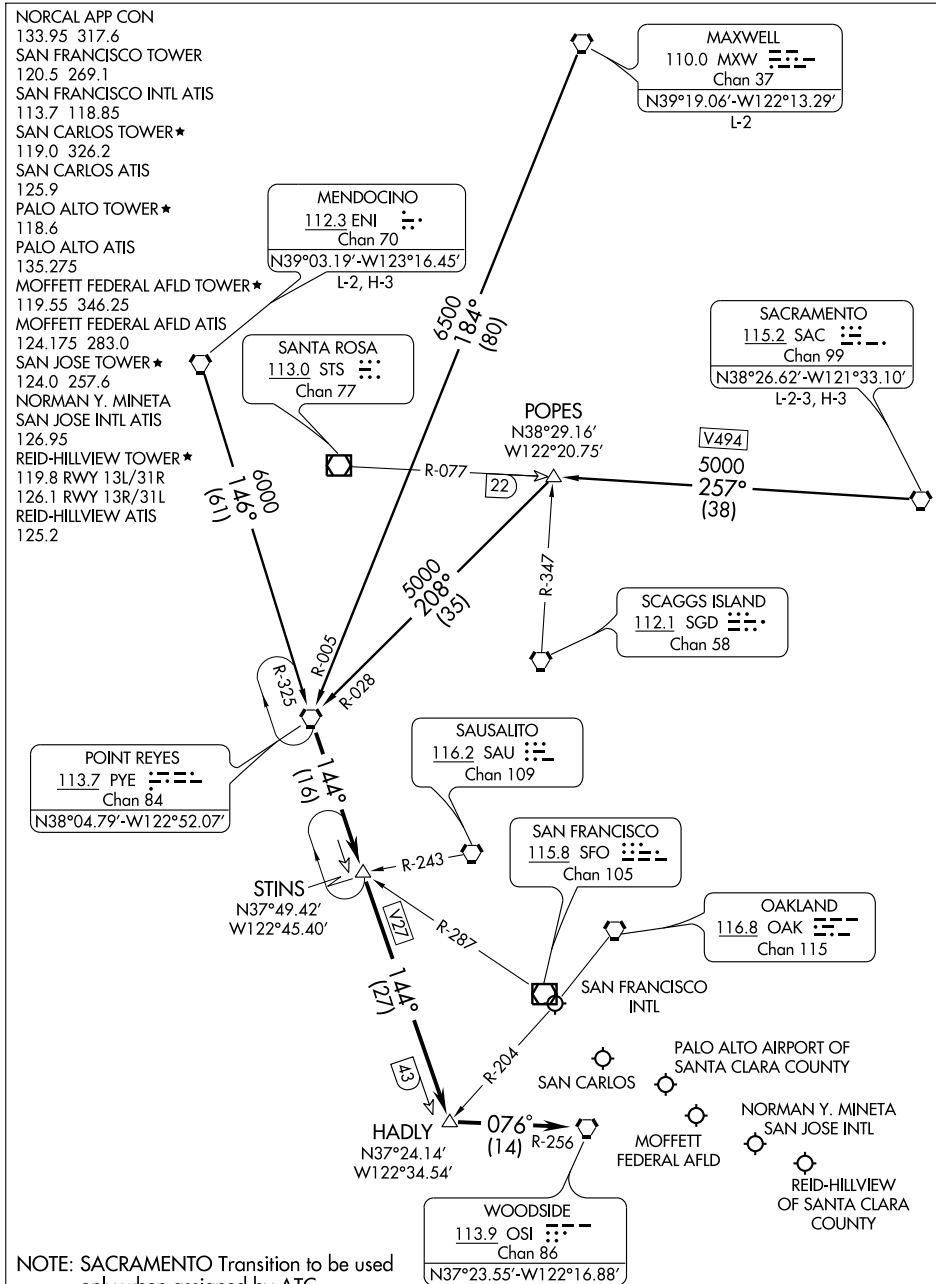
AVENAL TRANSITION (MOONY2.AVE): From over MOONY INT via OAK R-121 and AVE R-304 to AVE VORTAC.

PANOCHE TRANSITION (MOONY2.PXN): From over MOONY INT via PXN R-288 to PXN VORTAC.

POINT REYES ONE ARRIVAL

ST-375 (FAA)

SAN FRANCISCO, CALIFORNIA



SW-2. 14 JAN 2010 to 11 FEB 2010

NOTE: SACRAMENTO Transition to be used only when assigned by ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL DESCRIPTION

MAXWELL TRANSITION (MXW.PYE1): From over MXW VORTAC via MXW R-184 and PYE R-005 to PYE VORTAC. Thence....

MENDOCINO TRANSITION (ENI.PYE1): From over ENI VORTAC via ENI R-146 and PYE R-325 to PYE VORTAC. Thence....

SACRAMENTO TRANSITION (SAC. PYE1): From over SAC VORTAC via SAC R-257 and PYE R-028 to PYE VORTAC. Thence....

....From over PYE VORTAC via PYE R-144 to HADLY INT, then via OSI R-256 to OSI VORTAC. Expect radar vectors to final approach course.

▼

DME/DME RNP- 0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F).

MISSED APPROACH: Climb to 4000 direct FOBIG WP and left turn via 121° track to GILRO WP and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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ELEV 62

D

VGSI and RNAV glidepath not coincident.				
4 NM Holding Pattern				
3300 ← 303° → 123° → 123° → 1900 → RWY 11 GS 3.00° TCH 52 5.7 NM 5.6 NM				
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	516-1¾ 467 (500-1¾)			
LNAV MDA	520-1	471 (500-1)	520-1¼ 471 (500-1¼)	520-1½ 471 (500-1½)
CIRCLING	640-1 578 (600-1)	680-1 618 (700-1)	720-1¾ 658 (700-1¾)	720-2 658 (700-2)

SW-2 14 JAN 2010 to 11 FEB 2010

WAAS CH 69501 W12B	APP CRS 123°	Rwy Idg 8810 TDZE 44 Apt Elev 62
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RNAV (GPS) RWY 12L

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)



Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -15°C (5°F) or above 49°C (120°F).

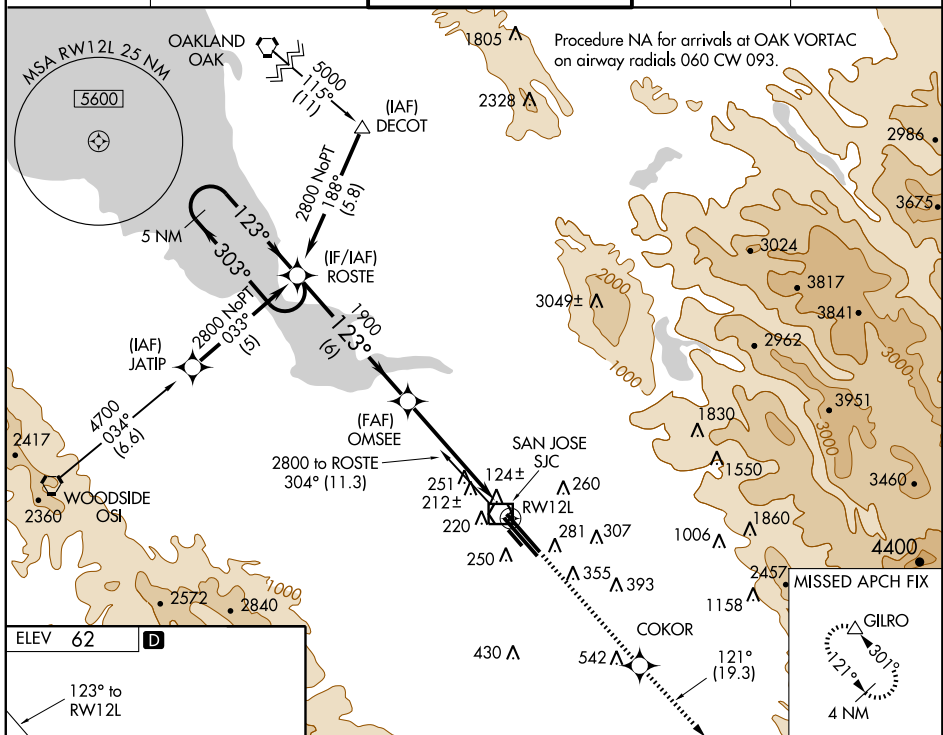
MISSED APPROACH: Climb to 4600 direct COKOR and via 121° track to GILRO and hold.

ATIS
126.95

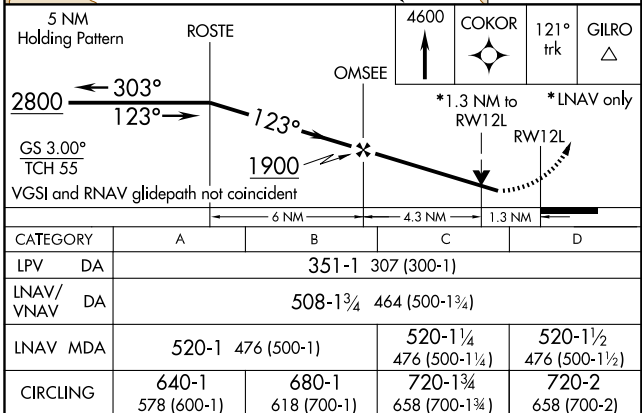
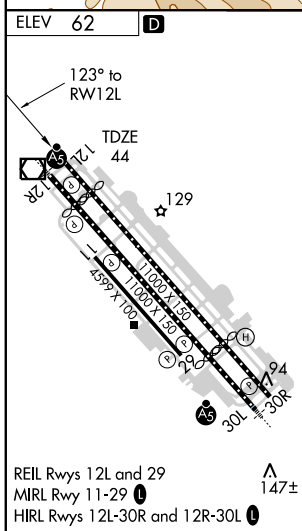
NORCAL APP CON
120.1 290.25

SAN JOSE TOWER ★
124.0 (CTAF) **L** 257.6

GND CON
121.7

CLNC DEL
118.0

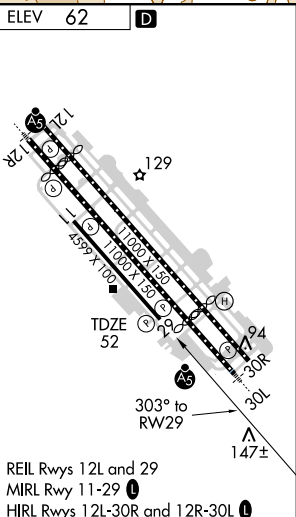
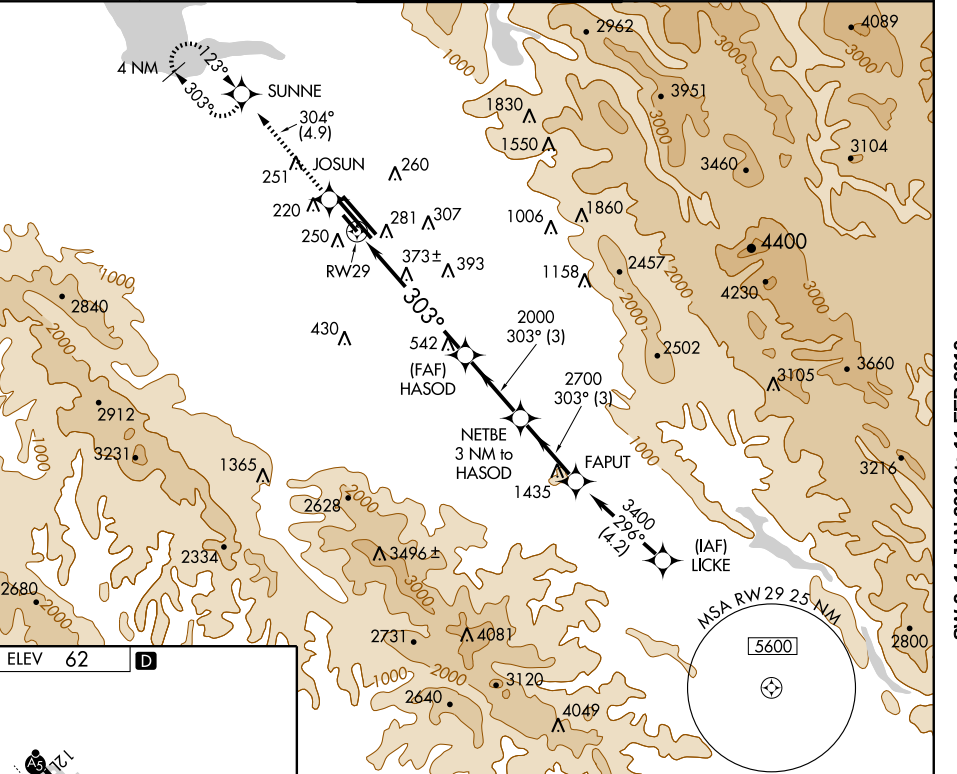
SW-2. 14 JAN 2010 to 11 FEB 2010



DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 2100 direct JOSUN WP and right turn via 304° track to SUNNE WP and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 257.6	GND CON 121.7	CLNC DEL 118.0
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VGSi and descent angles not coincident.				
2100 JOSUN 304° SUNNE 1.4 NM to RWY29 4.5 NM 3 NM 3 NM 3400 2700 2000 303° Procedure Turn NA				
CATEGORY	A	B	C	D
LNAV MDA	640-1	588 (600-1)	640-1½ 588 (600-1½)	640-1¾ 588 (600-1¾)
CIRCLING	640-1 578 (600-1)	680-1 618 (700-1)	720-1½ 658 (700-1½)	720-2 658 (700-2)

WAAS CH 72901 W30B	APP CRS 303°	Rwy Idg 7479 TDZE 55 Apt Elev 62
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RNAV (GPS) RWY 30R

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)



Visibility reduction by helicopters NA. DME/DME RNP -0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA
below -15°C (5°F) or above 49°C (120°F).

MISSED APPROACH: Climb to 2100 direct
HAGTO and via 301° track to SUNNE and hold.

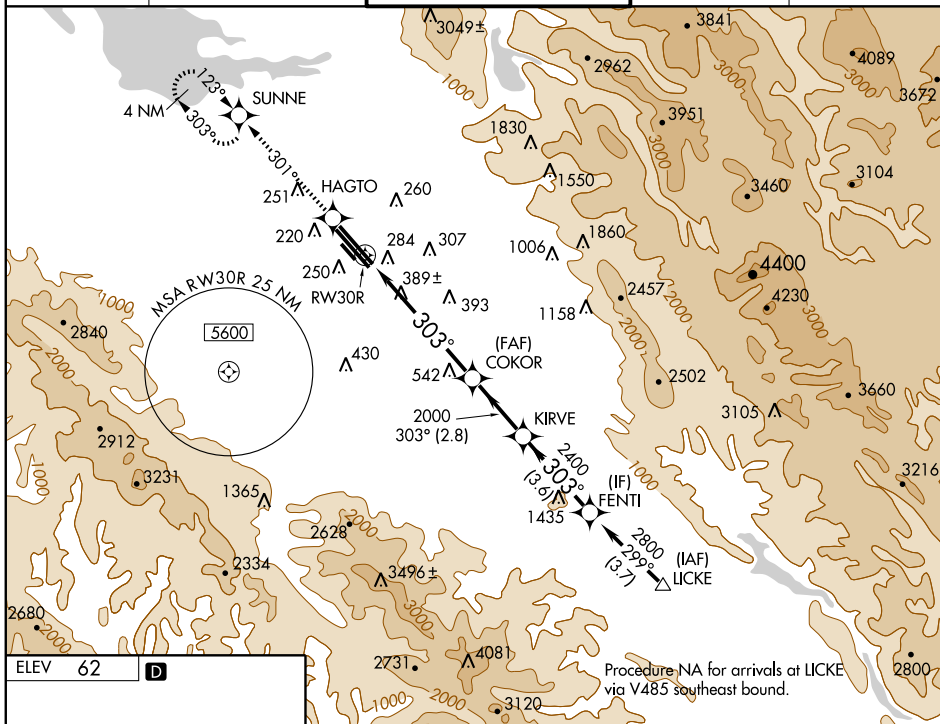
ATIS
126.95

NORCAL APP CON
120.1 290.25

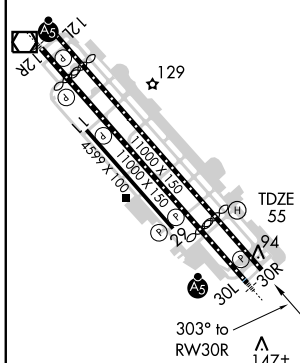
SAN JOSE TOWER ★
124.0 (CTAF) **L** 257.6

GND CON
121.7

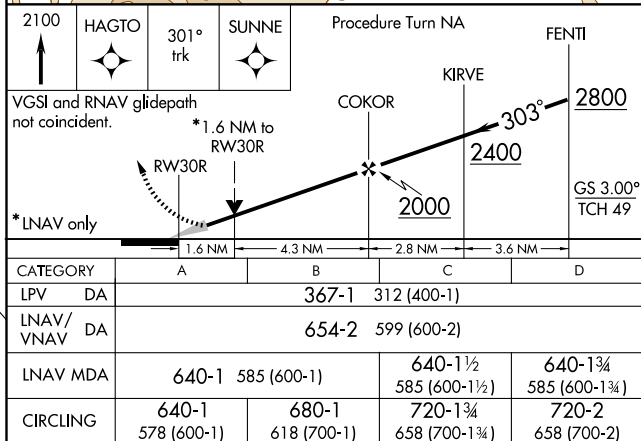
CLNC DEL
118.0



SW-2. 14 JAN 2010 to 11 FEB 2010



REIL Rwys 12L and 29
MIRL Rwy 11-29 **L**
HIRL Rwys 12L-30R and 12R-30L **L**



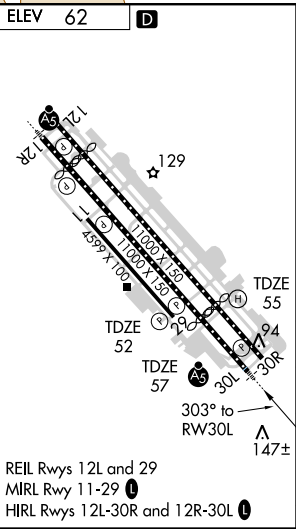
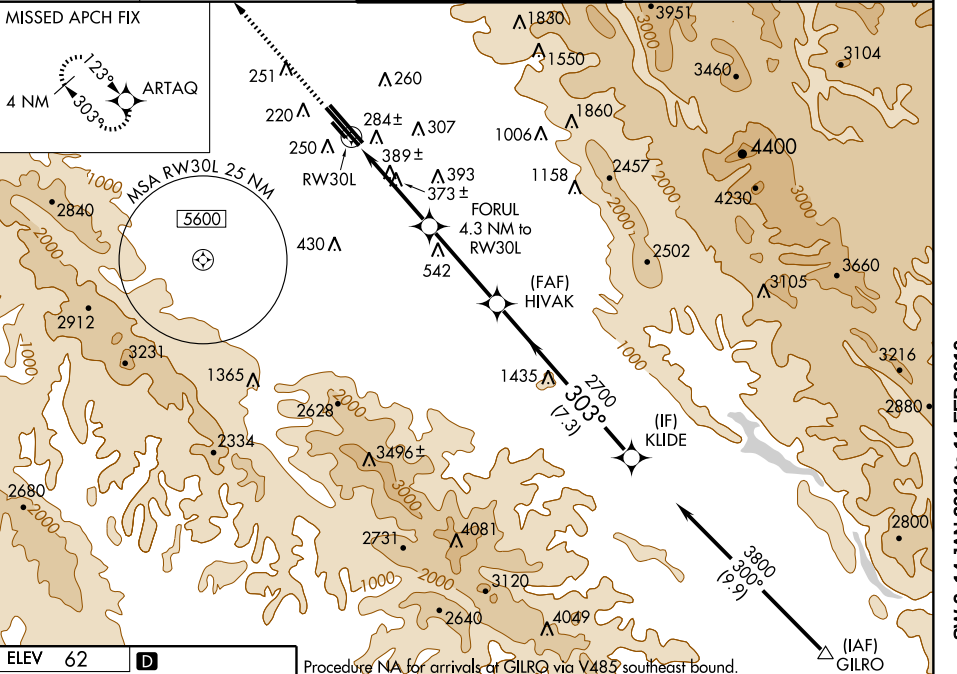
WAAS CH 97306 W30A	APP CRS 303°	Rwy Idg 30L 7605 TDZE 57 Apt Elev 62	Rwy Idg 30R 7479 TDZE 55 Apt Elev 62	Rwy Idg 29 4599 TDZE 52 Apt Elev 62	SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC')
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For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -15°C (5°F) or above 49°C (120°F).
DME/DME RNP-0.3 NA.

MALSR
Rwy 30L

MISSED APPROACH: Climb to
2800 direct ARTAQ and hold.

ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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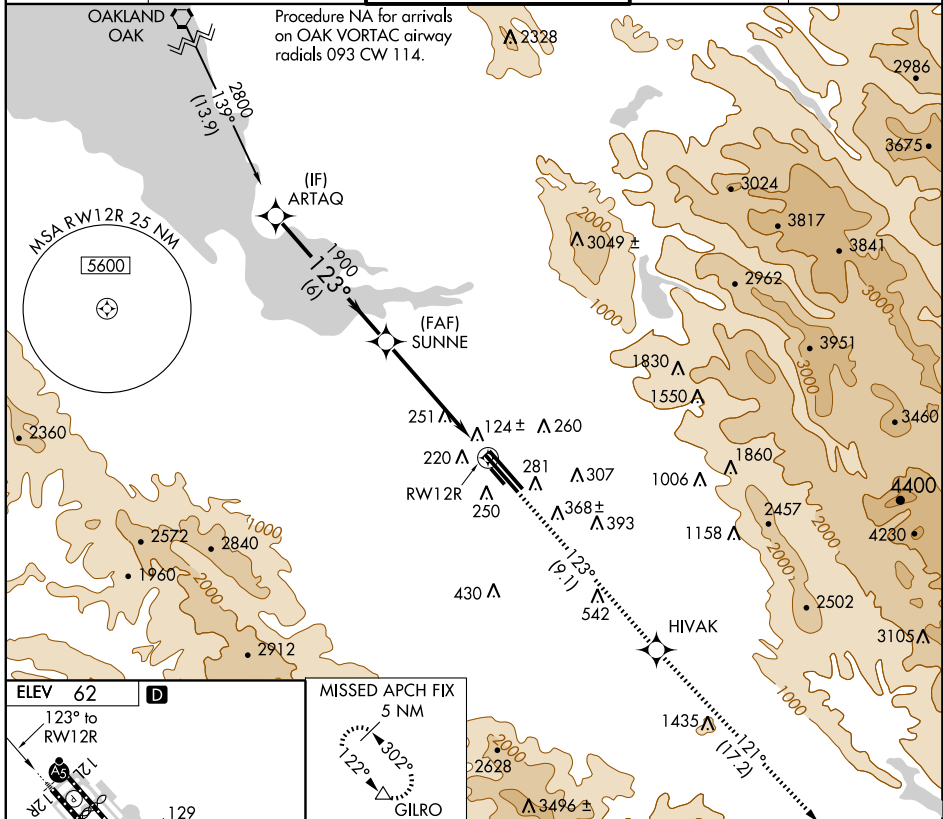
Procedure NA for arrivals at GILRO via V485 southeast bound.

2800	ARTAQ	VGSI and RNAV glidepath not coincident.	KLIDE	Procedure Turn NA
* LNAV only		FORUL 4.3 NM to RW30L	HIVAK	
		* 1.6 NM to RW30L	2700	
		RW30L	1480*	3800
		1.6	2.7	3.7 NM
				7.3 NM
CATEGORY	A	B	C	D
LPV DA	334/24	277 (300-1/2)		
LNAV/DA	586/60	529 (600-1/4)		
LNAV MDA	640/24 583 (600-1/2)	640/50 583 (600-1)	640/60 583 (600-1/4)	
SIDESTEP 30R	640-1 585 (600-1)	640-1 585 (600-1/2)	640-2 585 (600-2)	
SIDESTEP 29	640-1 588 (600-1)	640-1 588 (600-1/2)	640-2 588 (600-2)	
CIRCLING	NA			

RNAV (RNP) Z RWY 12R

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)

APP CRS 123°	Rwy Idg TDZE Apt Elev	5854 46 62	GPS required. For uncompensated Baro-VNAV systems, procedure NA below 0°C (32°F) or above 48°C (119°F). For inoperative MALSR, increase RNP 0.30 visibility to 1 1/4 mile all Cats.	MALSR 	MISSED APPROACH: Climb to 4600 via 123° trackto HIVAK and via 121° track to GILRO and hold.
ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0	



ARTAQ 2800 Procedure Turn NA GP 3.00° TCH 58	VGSI and RNAV glidepath not coincident. SUNNE 123° 1900	4600 123° track HIVAK	121° track GILRO
REIL Rws 12L and 29 MIRL Rwy 11-29 HIRL Rws 12L-30R and 12R-30L	6 NM 5.6 NM RWY 12R		
CATEGORY RNP 0.30 DA	A B C D	439-1 393 (400-1)	
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED			

APP CRS 303°	Rwy Idg TDZE Apt Elev	7605 46 62
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RNAV (RNP) Z RWY 30L

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)

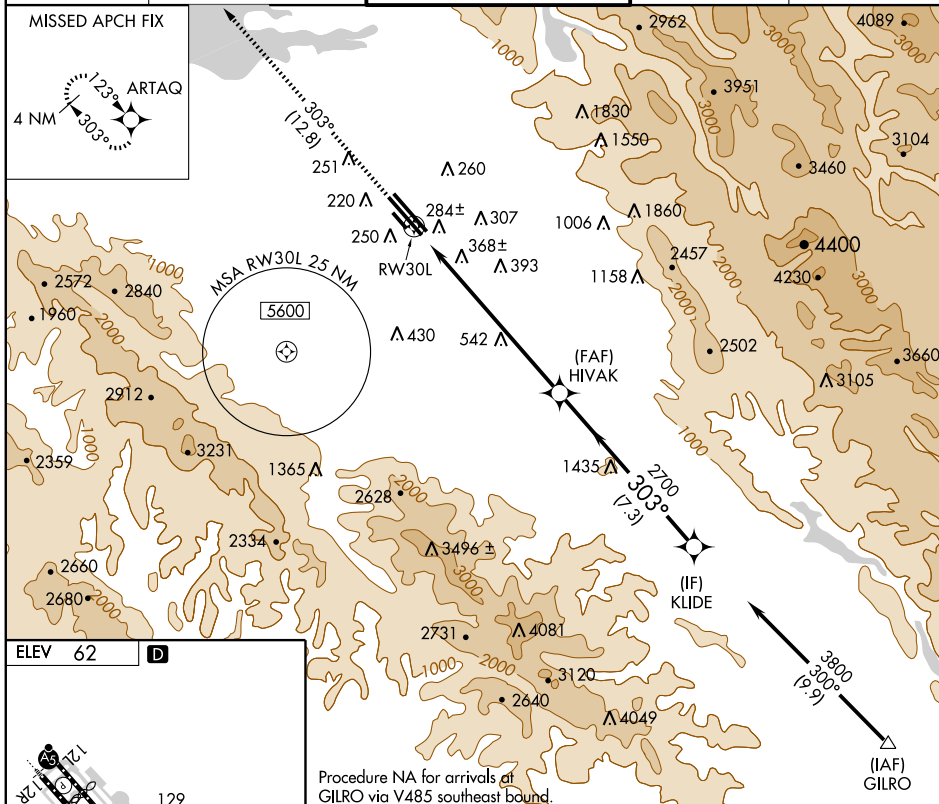
T GPS required. For uncompensated Baro-VNAV systems, procedure NA below 0°C (32°F) or above 48°C (119°F). For inoperative MALSR increase RNP 0.30 visibility to 1 3/4 mile all Cats.



MISSED APPROACH: Climb to 2800 via 303° track to ARTAQ and hold.

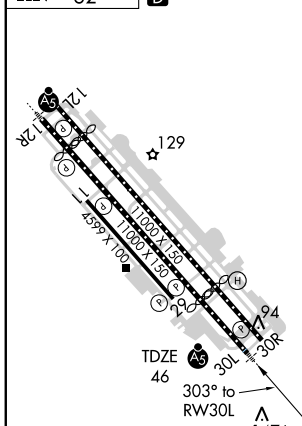
ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6	GND CON 121.7	CLNC DEL 118.0
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MISSED APCH FIX

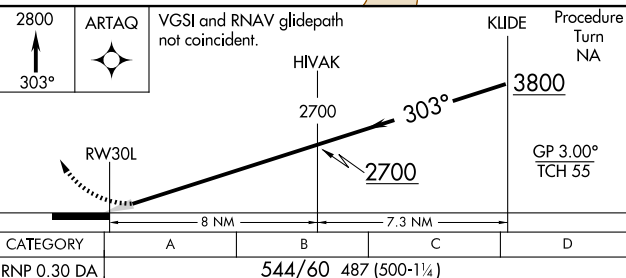


SW-2. 14 JAN 2010 to 11 FEB 2010

ELEV	62	D
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Procedure NA for arrivals at
GILRO via V485 southeast bo

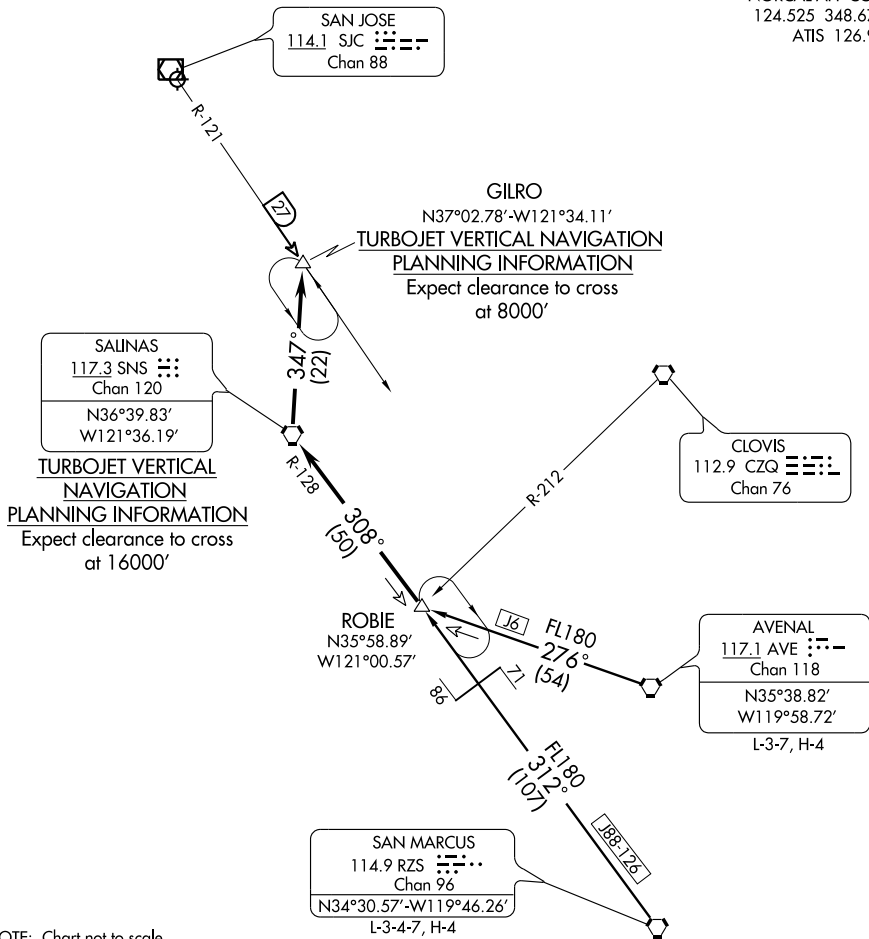


REIL Rwy 12L and 29
MIRL Rwy 11-29 **L**
HIRL Rwy 12L-30R and 12R-30L **L**

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ROBIE TWO ARRIVAL

ST-693 (FAA)

NORMAN Y. MINETA SAN JOSE INTL
SAN JOSE, CALIFORNIANORCAL APP CON
124.525 348.675
ATIS 126.95

AVENAL TRANSITION (AVE.ROBIE2): From over AVE VORTAC via AVE R-276 to ROBIE INT. Thence

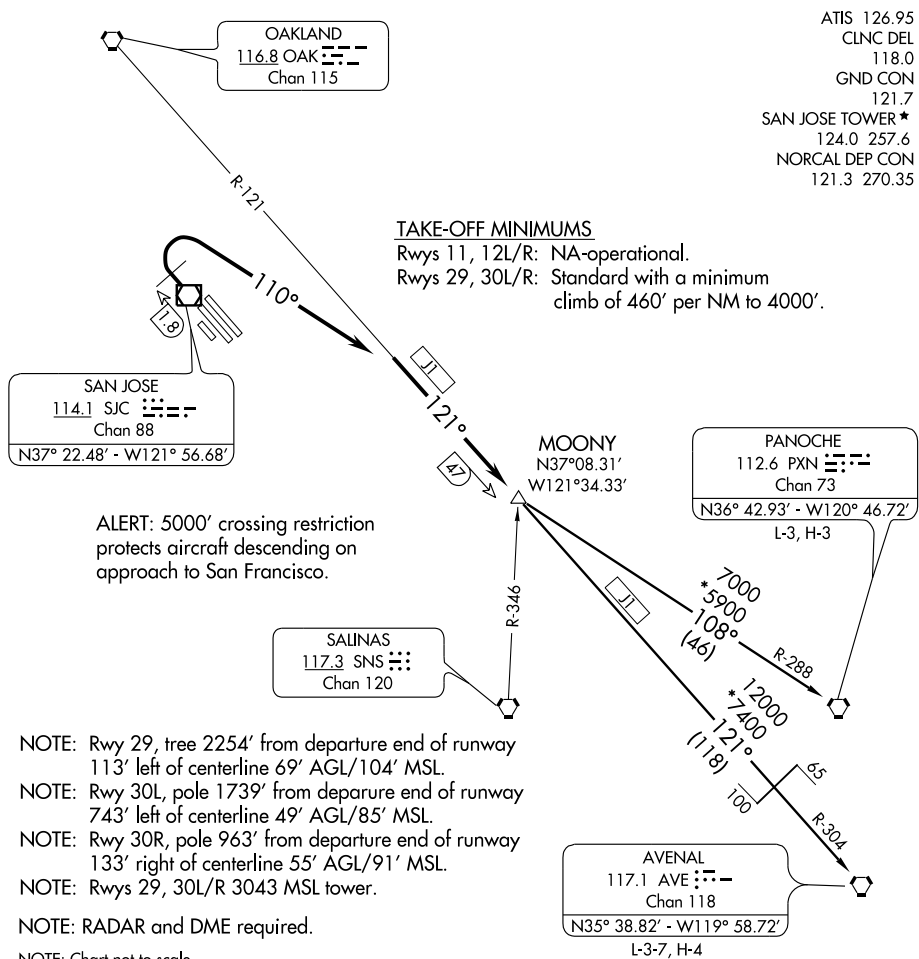
SAN MARCUS TRANSITION (RZS.ROBIE2): From over RZS VORTAC via RZS R-312 to ROBIE INT. Thence

. . . . From over ROBIE INT via SNS R-128 to SNS VORTAC. Then via SNS R-347 to GILRO INT/DME fix. Expect the ILS Rwy 30L approach.

For Rwy 12 operations: Expect routing via SNS direct SJC VOR/DME and radar vectors to the final approach course. Expect clearance to cross SNS at 16000 and cross 25 NM SE SJC at 8000'.

SAN JOSE NINE DEPARTURE

SAN JOSE/ NORMAN Y. MINETA SAN JOSE INTL (SJC)
SL-693 (FAA) SAN JOSE, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L/R: NA

TAKE-OFF RUNWAYS 29, 30L/R: Climb via runway heading to SJC 1.8 DME northwest of SJC VOR/DME. Then turn right heading 110° to intercept and proceed via OAK R-121 to MOONY INT. Thence....

.... via (transition) or (assigned route). Maintain 5000, expect clearance to filed altitude ten minutes after departure.

AVENAL TRANSITION (SJC9.AVE): From over MOONY INT via OAK R-121 and AVE R-304 to AVE VORTAC.

PANOCHE TRANSITION (SJC9.PXN): From over MOONY INT via PXN R-288 to PXN VORTAC.

(SUNOL6.SUNOL) 09351 SUNOL SIX DEPARTURE

SAN JOSE / NORMAN Y. MINETA SAN JOSE (SJC)
SL-693 (FAA) SAN JOSE, CALIFORNIA

ATIS 126.95
CLNC DEL
118.0
GND CON
121.7
SAN JOSE TOWER ★
124.0 257.6
NORCAL DEP CON
121.3 270.35

OAKLAND
116.8 OAK
Chan 115

ALTAM
N37°48.73'
W121°44.83'

SACRAMENTO
115.2 SAC
Chan 99
N38° 26.62' - W121° 33.10'
L-2-3, H-3

MANTECA
116.0 ECA
Chan 107
N37° 50.01' - W121° 10.29'
L-2-3, H-3

TRACY
N37°43.89'
W121°27.56'

REIGA
374 LV

SUNOL
N37°36.33'
W121°48.62'
5000

TAKE-OFF MINIMUMS

Rwys 29, 30L/R: Standard with a minimum climb of 460' per NM to 4000'.

Rwys 11, 12L/R: Standard with a minimum climb of 290' per NM to 4000'.

NOTE: Radar required.

NOTE: Chart not to scale.

SAN JOSE
114.1 SJC
Chan 88
N37° 22.48' - W121° 56.68'

NOTE: SUNOL departure restricted to prop aircraft only.
NOTE: DME required for Rwys 29, 30L/R departures.

NOTE: Rwy 29, tree 2254' from departure end of runway 113' left of centerline 63' AGL /102' MSL.

NOTE: Rwy 30L, pole 1739' from departure end of runway 743' left of centerline 55' AGL /91' MSL.

NOTE: Rwy 30R, pole 963' from departure end of runway 133' right of centerline 49' AGL /85' MSL.

NOTE: Rwys 12L/R, building 1.34 NM from departure end of runway 1008' left of centerline 271' AGL/329' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 11, 12L/R: Climb via heading 123° to intercept and proceed via OAK R-129 to 4000. Then turn left heading 300° for radar vectors to intercept and proceed via SJC R-009 to SUNOL INT. Thence....

TAKE-OFF RUNWAYS 29, 30L/R: Climb runway heading at SJC 1.8 DME northwest of SJC VOR/DME, turn right heading 040° to intercept and proceed via SJC R-009 to SUNOL INT. Thence....

...Cross SUNOL INT at 5000', then via (transition) or (assigned route).

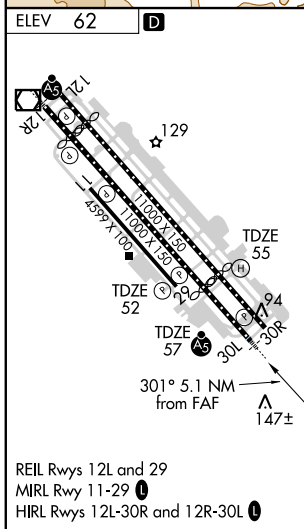
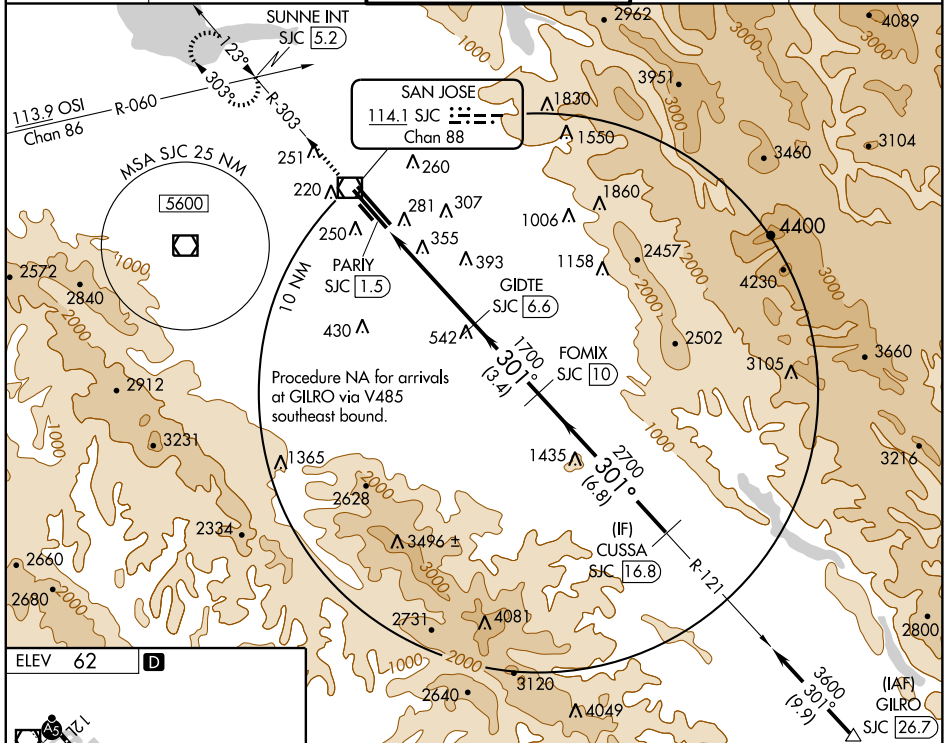
MANTECA TRANSITION (SUNOL6.ECA): From over SUNOL INT via ECA R-229 to ECA VORTAC.

SACRAMENTO TRANSITION (SUNOL6.SAC): From over SUNOL INT via SAC R-177 to SAC VORTAC.

VOR/DME SJC	APP CRS	Rwy Idg 30L	Rwy Idg 30R	Rwy Idg 29
114.1	301°	7605	7479	4599
Chan 88		TDZE 57	TDZE 55	TDZE 52
		Apt Elev 62	Apt Elev 62	Apt Elev 62

SAN JOSE / NORMAN Y.
MINETA SAN JOSE INTL (SJC)

V		MALSR Rwy 30L 	MISSED APPROACH: Climb to 1900 via SJC VOR/DME R-303 to SUNNE Int/SJC 5.2 DME and hold.		
ATIS 126.95	NORCAL APP CON 120.1 290.25	SAN JOSE TOWER ★ 124.0 (CTAF) 0 257.6		GND CON 121.7	CLNC DEL 118.0



1900

↑

SJC R-303

SUNNE INT

SJC [5.2]

GIDTE

SJC [6.6]

FOMIX

SJC [10]

CUSSA

SJC [16.8]

VOR/DME

PARIY

SJC [1.5]

SJC

[3.2]

2.95°

TCH 55

3600

Procedure Turn NA

1700

2700

301°

VGSI and descent angles not coincident.

1.7

3.4 NM

3.4 NM

6.8 NM

CATEGORY	A	B	C	D
S-30L	660/24 603 (600-½)		660/60 603 (600-¼)	660-1½ 603 (600-½)
SIDESTEP RWY 29	660-1 608 (600-1)		660-1¾ 608 (600-¾)	660-2 608 (600-2)
SIDESTEP RWY 30R	660-1 605 (600-1)		660-1¾ 605 (600-¾)	660-2 605 (600-2)
CIRCLING	NA			

VOR/DME SJC 114.1 Chgn 88	APP CRS 298°	Rwy Idg 7479 TDZE 53 Apt Elev 59
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VOR/DME RWY 30R

SAN JOSE / NORMAN Y. MINETA SAN JOSE INTL (SJC)

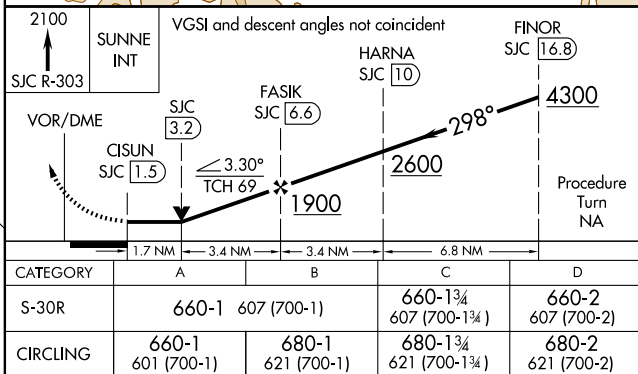
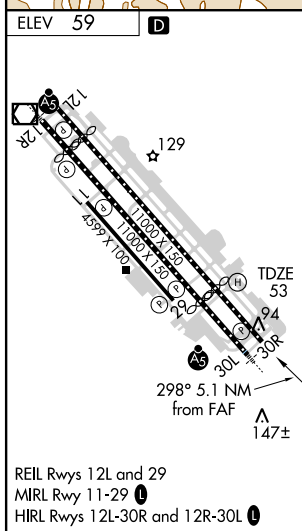
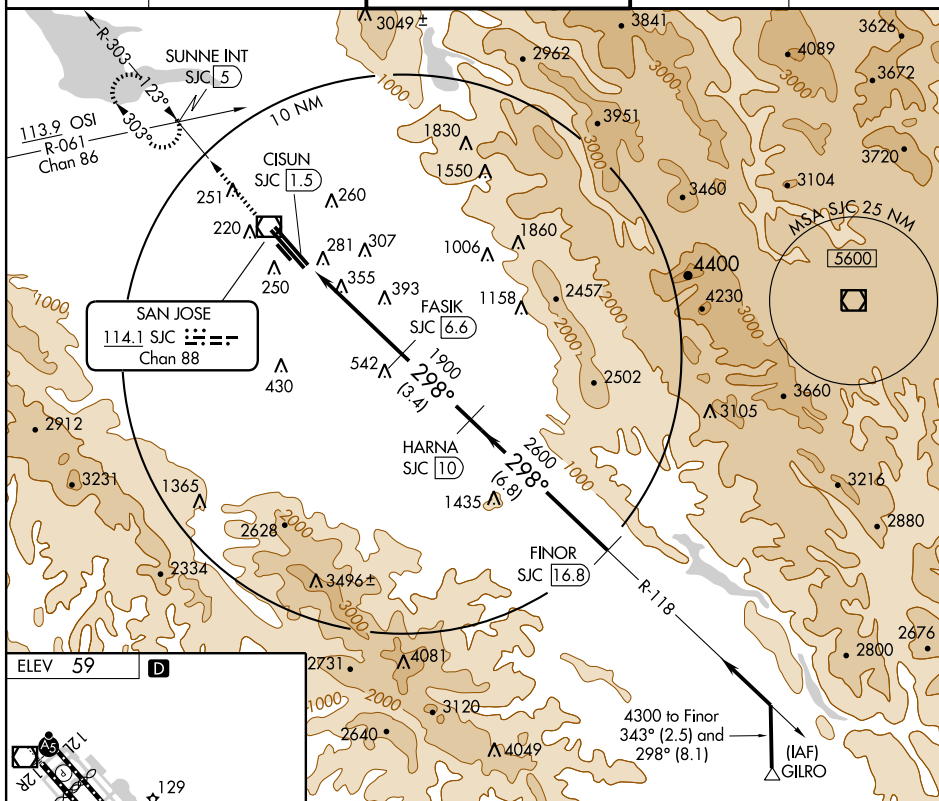
MISSED APPROACH: Climb to 2100 via SJC VOR/DME R-303 to SUNNE INT/SJC 5 DME and hold.

ATIS
126.95

NORCAL APP CON
120.1 290.25

SAN JOSE TOWER ★
124.0 (CTAF) **L** 257.6

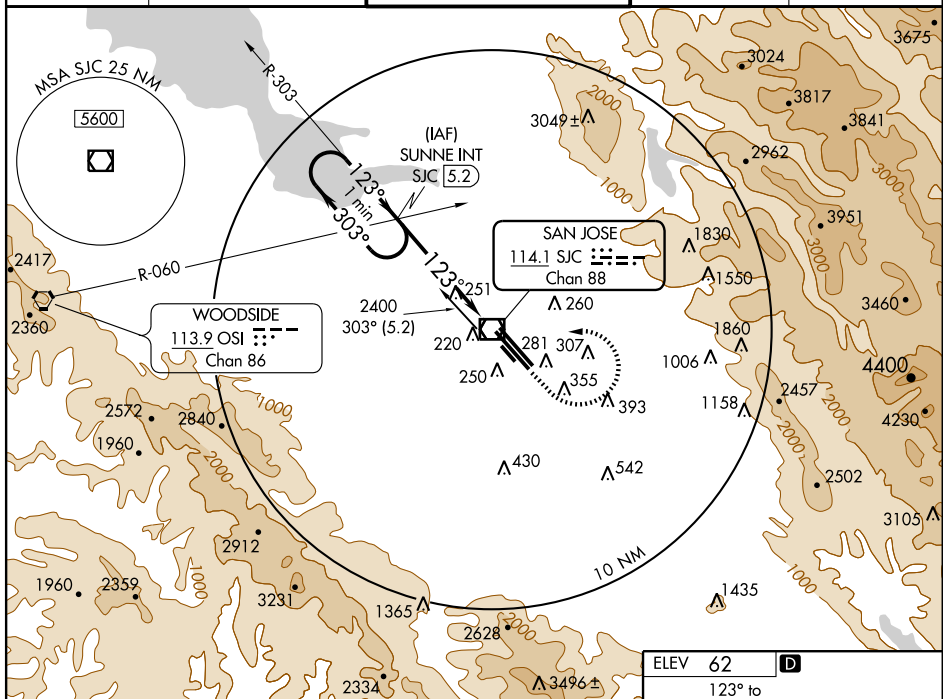
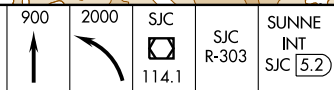
GND CON
121.7

CLNC DEL
118.0

VOR RWY 12R

SAN JOSE / NORMAN Y.
MINETA SAN JOSE INTL (SJC)

MISSED APPROACH: Climb to 900, then climbing left turn to 2000, direct SJC VOR/DME and R-303 to SUNNE Int/SJC 5.2 DME and hold.

CLNC DEL
118.0SUNNE INT
SJC 5.2

CATEGORY	A	B	C	D
S-12R	540-½ 494 (500-½)		540-¾ 494 (500-¾)	540-1 494 (500-1)
SIDESTEP RWY 12L	540-1 496 (500-1)		540-2 496 (500-2)	
SIDESTEP RWY 11	540-1 491 (500-1)		540-2 491 (500-2)	
CIRCLING	640-1 578 (600-1)	680-1 618 (700-1)	720-1¾ 658 (700-1¾)	720-2 658 (700-2)

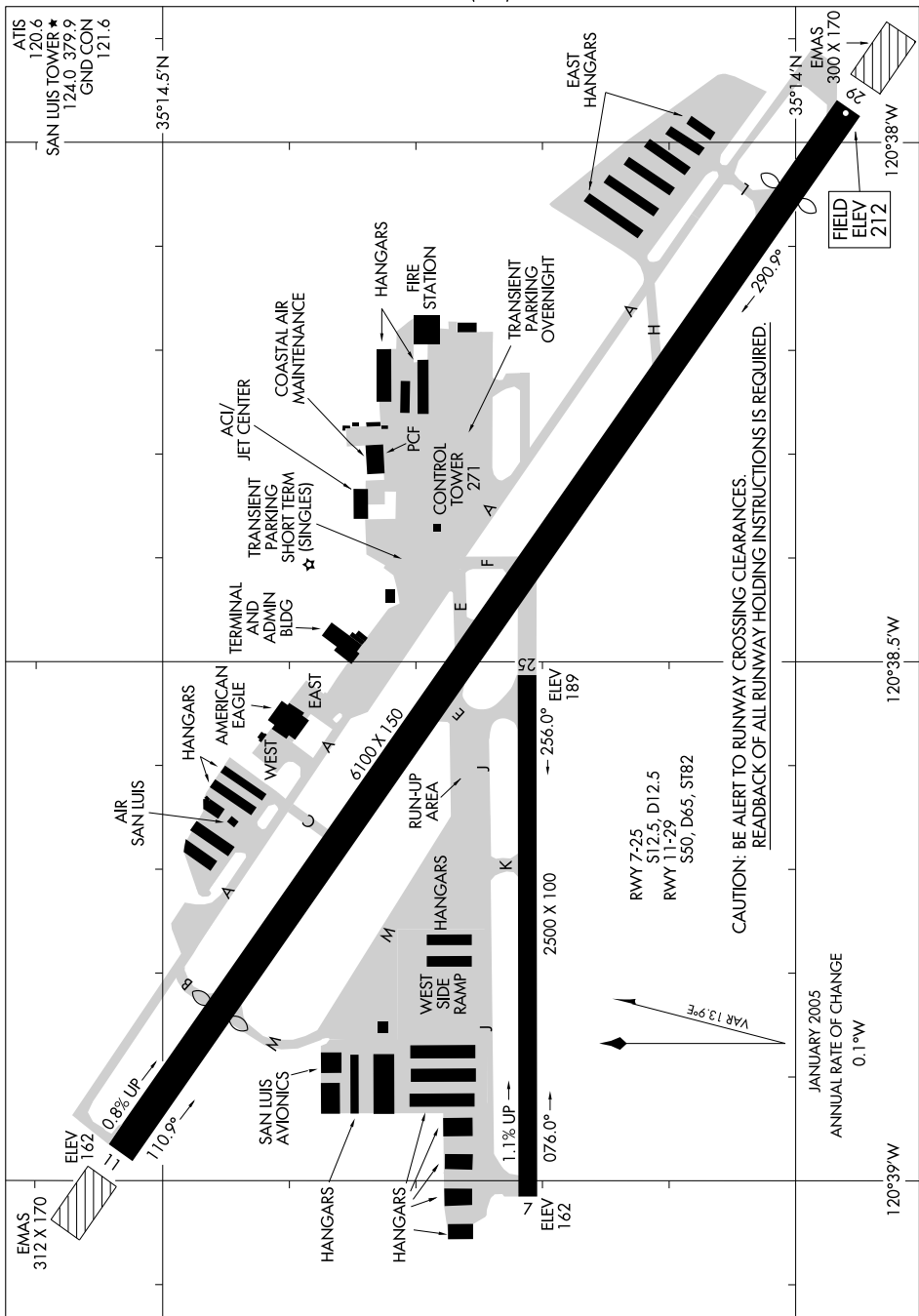
REIL Rwy 12L and 29
MIRL Rwy 11-29 **L**
HIRL Rwy 12L-30R and 12R-30L **L**

SW-2. 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-989 (FAA)

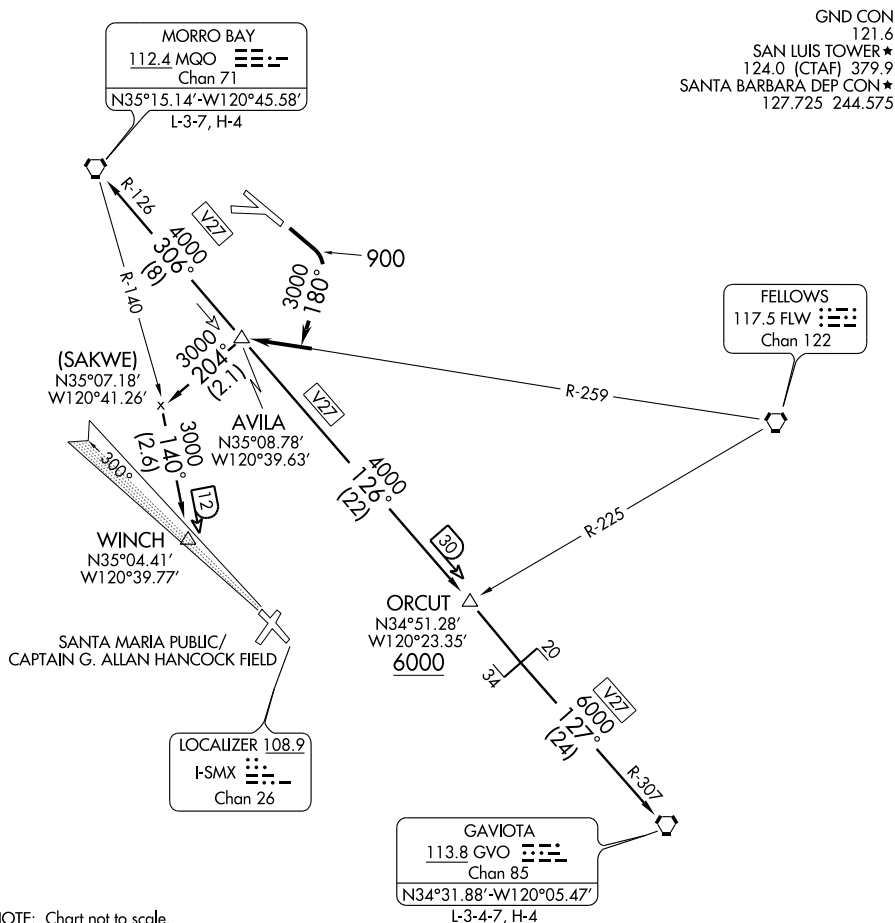
SAN LUIS COUNTY RGNL (SBP)
SAN LUIS OBISPO, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

AVILA THREE DEPARTURE

SL-989 (FAA)

SAN LUIS COUNTY RGNI (SBP)
SAN LUIS OBISPO, CALIFORNIA

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Maintain runway heading to 900', then climbing right turn to 3000' or assigned altitude, heading 180° to intercept FLW R-259 to AVILA INT, then via (transition) or (assigned route).

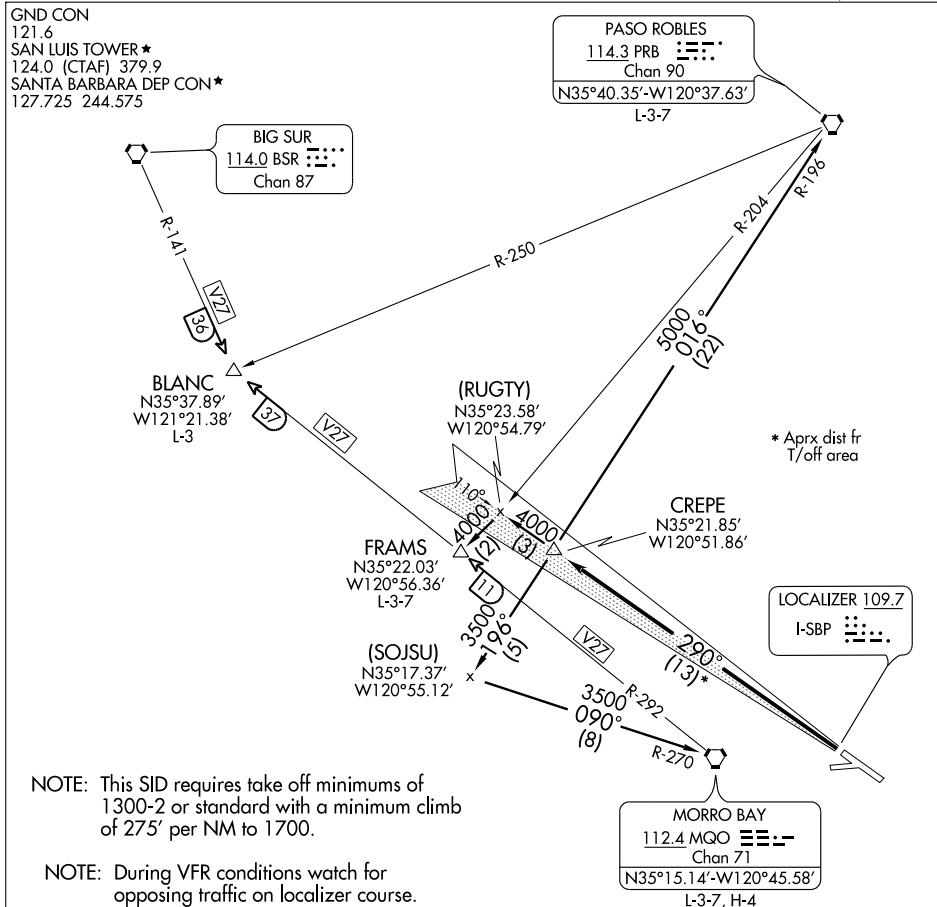
GAVIOTA TRANSITION (AVILA3.GVO): From over AVILA INT via V27 to GVO VORTAC.

MORRO BAY TRANSITION (AVILA3.MQO): From over AVILA INT via V27 to MQO VORTAC.

WINCH TRANSITION (AVILA3.WINCH): From over AVILA INT via heading 204° 2.1 NM, to intercept MQO R-140 to WINCH INT 2.6 NM.

CREPE THREE DEPARTURE

SL-989 (FAA)

SAN LUIS COUNTY RGNL (SBP)
SAN LUIS OBISPO, CALIFORNIA

NOTE: This SID requires take off minimums of 1300-2 or standard with a minimum climb of 275' per NM to 1700.

NOTE: During VFR conditions watch for opposing traffic on localizer course.

NOTE: This procedure applicable to Runway 29 departures only.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 29: Climb via San Luis Obispo localizer I-SBP west course to CREPE INT; thence via (transition) or (assigned route).

FRAMS TRANSITION (CREPE3.FRAMS): From over CREPE INT via I-SBP LOC west course and PRB R-204 to FRAMS INT.

MORRO BAY TRANSITION (CREPE3.MQO): From over CREPE INT via PRB R-196 and MQO R-270 to MQO VORTAC.

PASO ROBLES TRANSITION (CREPE3.PRB): From over CREPE INT via PRB R-196 to PRB VORTAC.

ELEV 209

Rwy 11 ldg 5300'

Rwy 29 ldg 5600'

110° 6.1 NM from FAF

TDZE 195

0.8% UP

1.1% UP

2500 X 100

6100 X 130

271

231

294 ±

281

HIRL Rwy 11-29

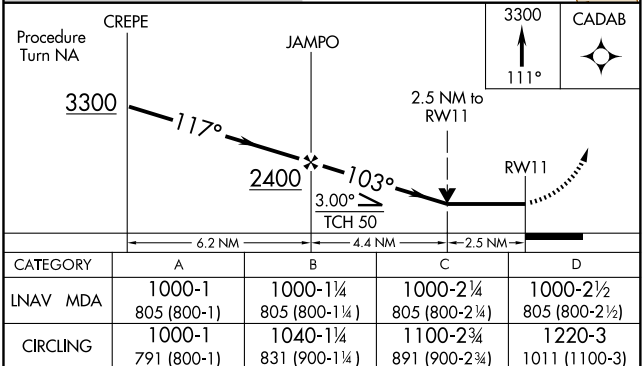
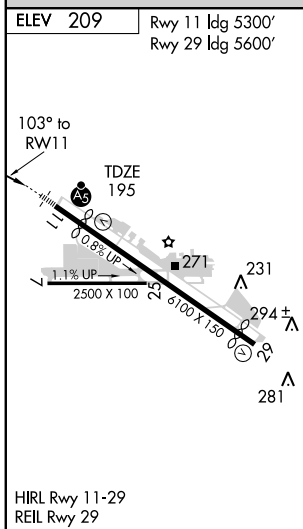
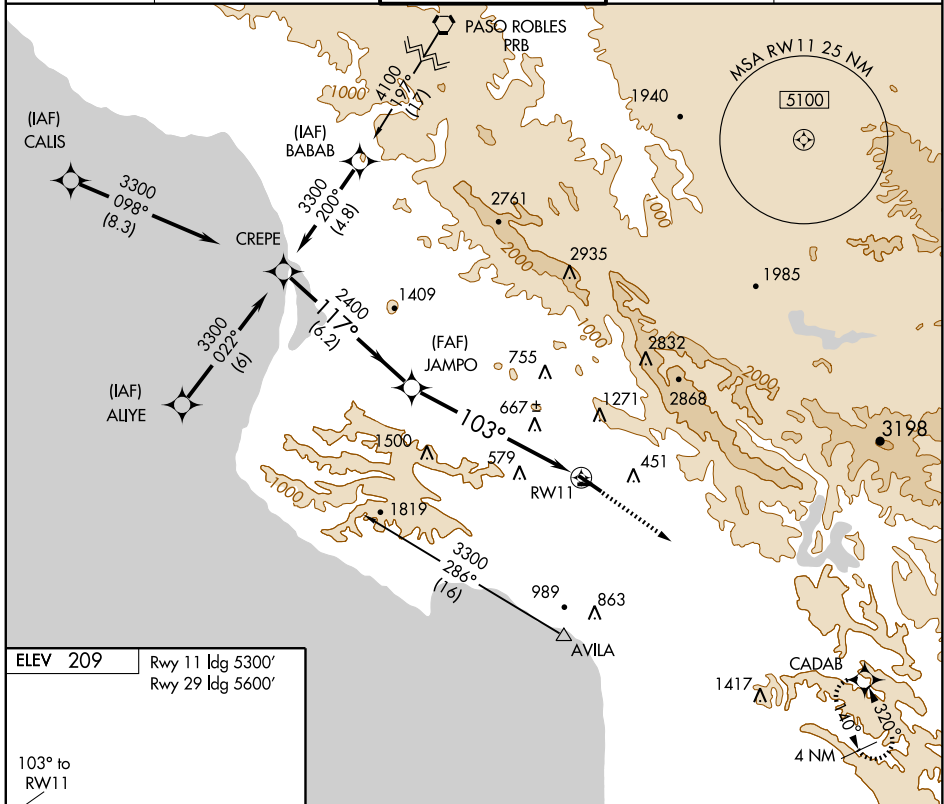
REIL Rwy 29

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

T GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. A NA Circling NA north of Rwy 11-29. Inoperative table does not apply to LNAV Cat A.	MALSR 	MISSED APPROACH: Climb to 3300 via 111° course to CADAB WP and hold.
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ATIS 120.6	SANTA BARBARA APP CON* 127.725 244.575	SAN LUIS TOWER* 124.0 (CTAF) 379.9	GND CON 121.6	UNICOM 122.95
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APP CRS	Rwy Idg	5600
290°	TDZE	209
	Apt Elev	209

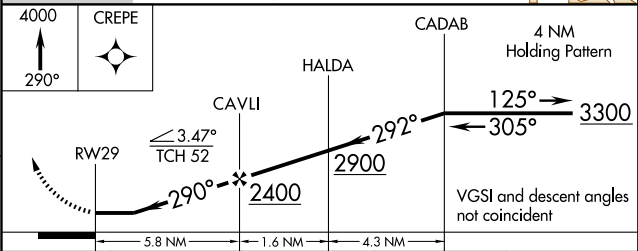
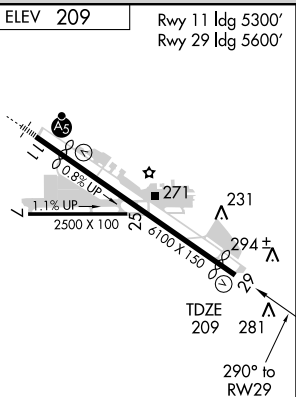
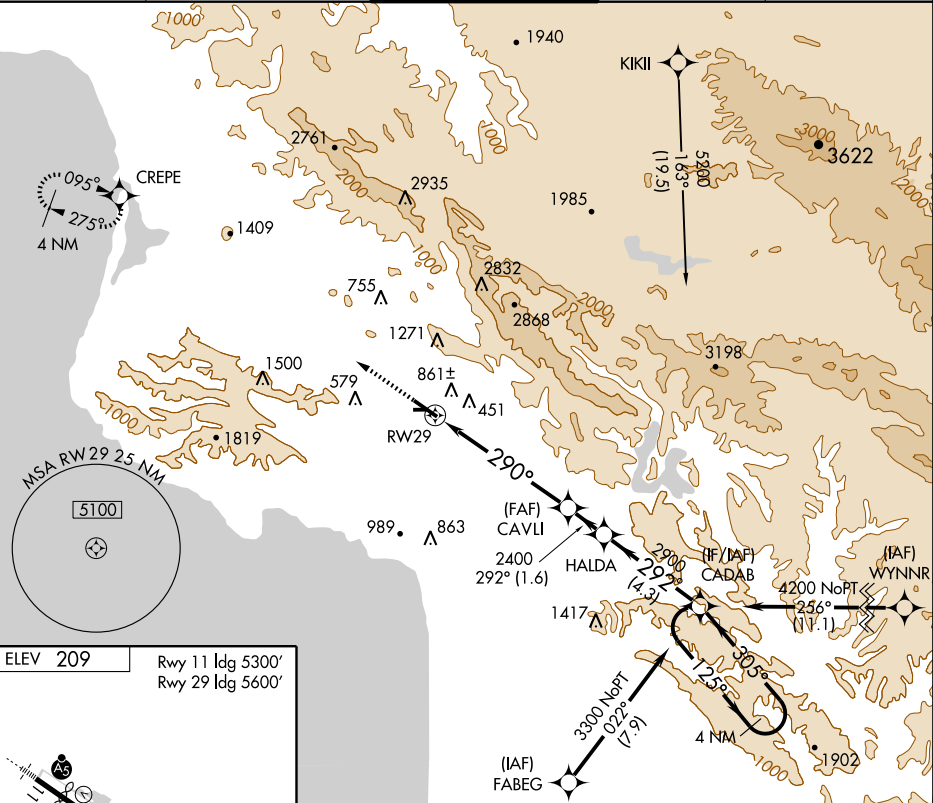
AL-989 (FAA)

RNAV (GPS) RWY 29

SAN LUIS COUNTY RGNL (SBP)

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 4000 via 290° course to CREPE WP and hold.
NA	Circling NA north of Rwy 11-29.

ATIS 120.6	SANTA BARBARA APP CON* 127.725 244.575	SAN LUIS TOWER* 124.0 (CTAF) 379.9	GND CON 121.6	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAB MDA	1040-1 831 (900-1)	1040-1½ 831 (900-1½)	1040-2½ 831 (900-2½)	1040-2¾ 831 (900-2¾)
CIRCLING	1180-1¼ 971 (1000-1¼)	1180-1½ 971 (1000-1½)	1180-3 971 (1000-3)	1220-3 1011 (1100-3)

VOR or TACAN-A

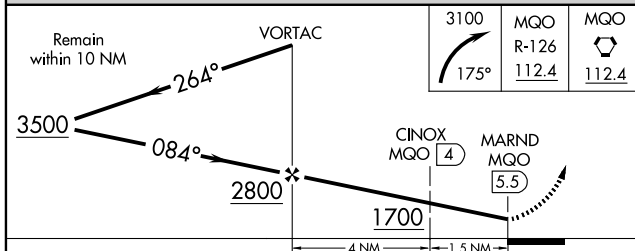
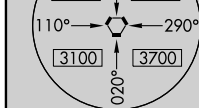
SAN LUIS COUNTY RGNL (SBP)

VORTAC MQO 112.4 Chan 71	APP CRS 084°	Rwy Idg TDZE Apt Elev N/A N/A 209
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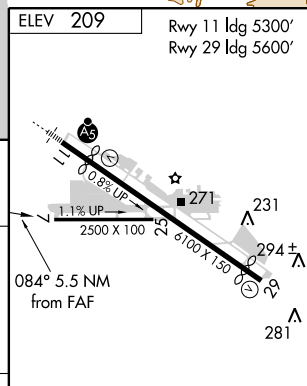
⚠ Circling NA north of Rwy 11-29.

MISSED APPROACH: Climbing right turn to 3100 via heading 175° and MQO R-126 to MQO VORTAC and hold. (TACAN Aircraft continue climb to 4000 via MQO R-292 to FRAMS 11.2 DME and hold east, right turns, 292° inbound.)

ATIS 120.6	SANTA BARBARA APP CON ★ 127.725 244.575	SAN LUIS TOWER ★ 124.0 (CTAF) 379.9	GND CON 121.6	UNICOM 122.95
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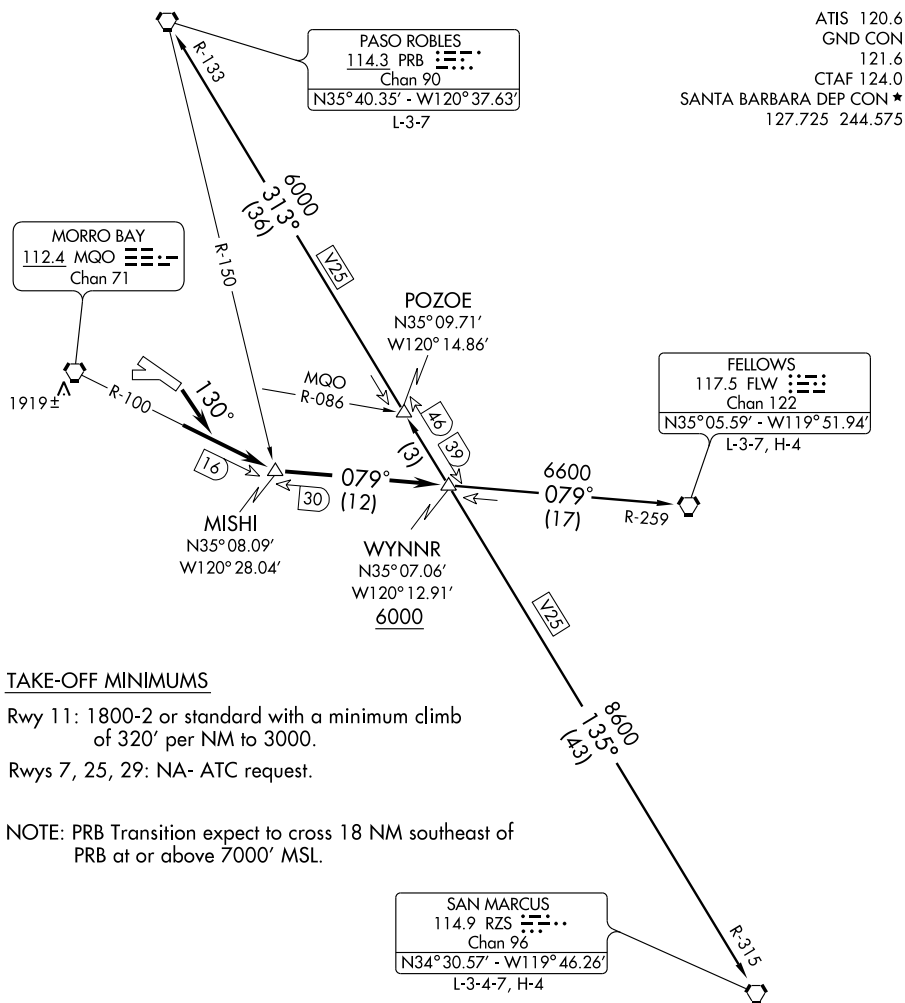


CATEGORY	A	B	C	D
CIRCLING	1700-1¼ 1491 (1500-1¼)	1700-1½ 1491 (1500-1½)	1700-3 1491 (1500-3)	
TACAN OR DME MINIMA				
CIRCLING	1120-1¼ 911 (1000-1¼)	1160-2¾ 951 (1000-2¾)	1280-3 1071 (1100-3)	



HIRL Rwy 11-29 REIL Rwy 29						
FAF to MAP 5.5 NM						
Knots	60	90	120	150	180	
Min:Sec	5:30	3:40	2:45	2:12	1:50	

WYNNR TWO DEPARTURE



TAKE-OFF MINIMUMS

Rwy 11: 1800-2 or standard with a minimum climb of 320' per NM to 3000.

Rwys 7, 25, 29: NA- ATC request.

NOTE: PRB Transition expect to cross 18 NM southeast of PRB at or above 7000' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Turn right heading 130° to intercept and proceed via MQO R-100 to MISHI INT, then via FLW R-259 to WYNNR INT. Thence via (transition) or assigned route.

FELLOWS TRANSITION (WYNNR2.FLW): From over WYNNR INT via FLW R-259 to FLW VORTAC.

PASO ROBLES TRANSITION (WYNNR2.PRB): From over WYNNR INT via PRB R-133 to PRB VORTAC.

SAN MARCUS TRANSITION (WYNNR2.RZS): From over WYNNR INT via RZS R-315 to RZS VORTAC.

APP CRS
321°

Rwy Idg	3100
TDZE	280
Apt Elev	281

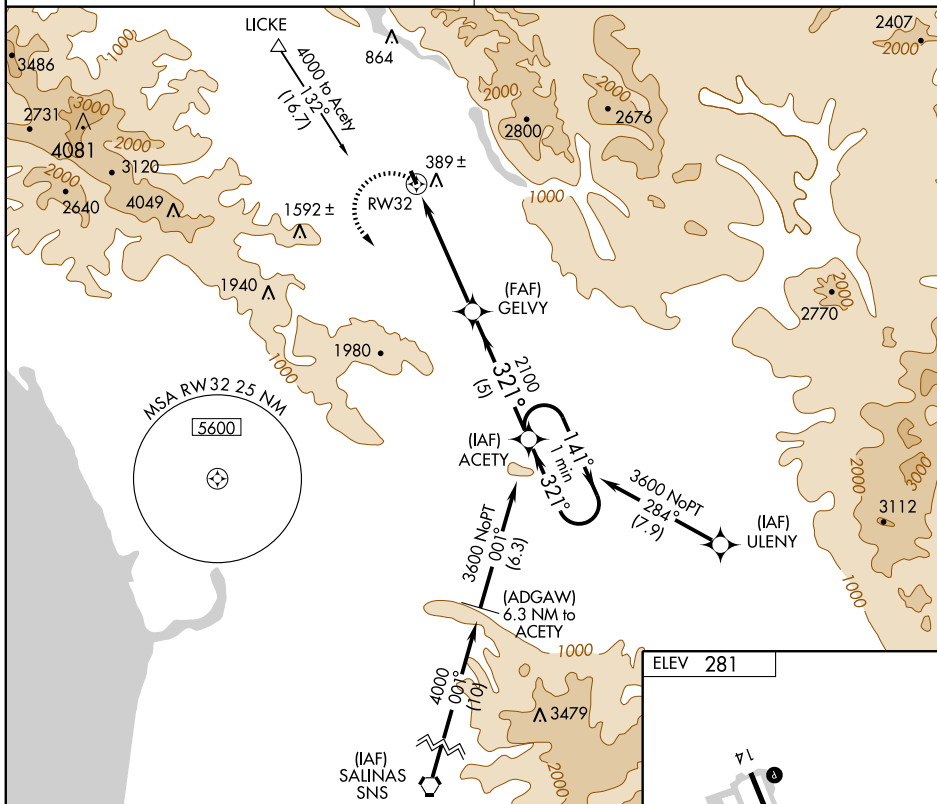
GPS RWY 32

SAN MARTIN/SOUTH COUNTY ARPT OF SANTA CLARA COUNTY (E16)

T Circling not authorized west of Rwy 14-32.
A **NA** Use Norman Y. Mineta San Jose Intl altimeter setting.

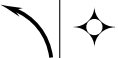
MISSED APPROACH: Climbing left turn to 3600 direct ACETY WP and hold.

NORCAL APP CON
124,525 348,675

UNICOM
122.7 (CTAF) **L**

SW-2: 14 JAN 2010 to 11 FEB 2010

3600	ACETY
------	-------



ACETY

One Minute Holding Pattern

GELVY

RW32

37° 2100

1

3400

VGSI and descent angles not coincident

CATEGORY

A

1320-1¼

B

1320-1½

C

--	--

S-32

040 (1100-11

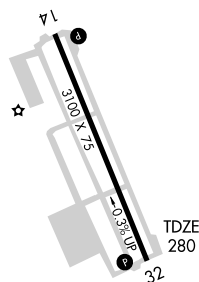
$$1320-1\frac{1}{4}$$

040 (1100-11

1040 (1100 1/2)
1320-1 1/2

1

ELEV 281



321° to

MIRL Rwy 14-32 **L**

SAN NICOLAS TOWER ★
126.85 379.3

SW-3, 14 JAN 2010 to 11 FEB 2010

ARMING/
DEARMING

12

ELEV
485

119.8°

E

D

C

TERMINAL

CONTROL
TOWER

HANGARS

(H)

10,002 x 194

E

B

E28(B)

E28(B)

FIELD
ELEV
506

A

E

299.8°

30

65 x 200

ELEV
498

CHUKAR
PAD

ARMING/
DEARMING

Rwy 12-30
PCN 63 R/C/W/T

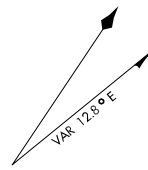
Rwy 12 tkof and ldg 9012'

119°28'W

33°14'N

33°15'N

119°27'W



AUGUST 2009
ANNUAL RATE OF CHANGE
0.1° W

LOC I-NSI 109.7	APCH CRS 299°	Rwy ldg TDZE Arprt Elev 10,002 506 506
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AL-5162 [USN]

SAN NICOLAS ISLAND NOLF

(NSI)

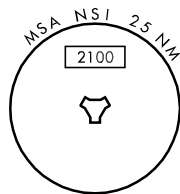
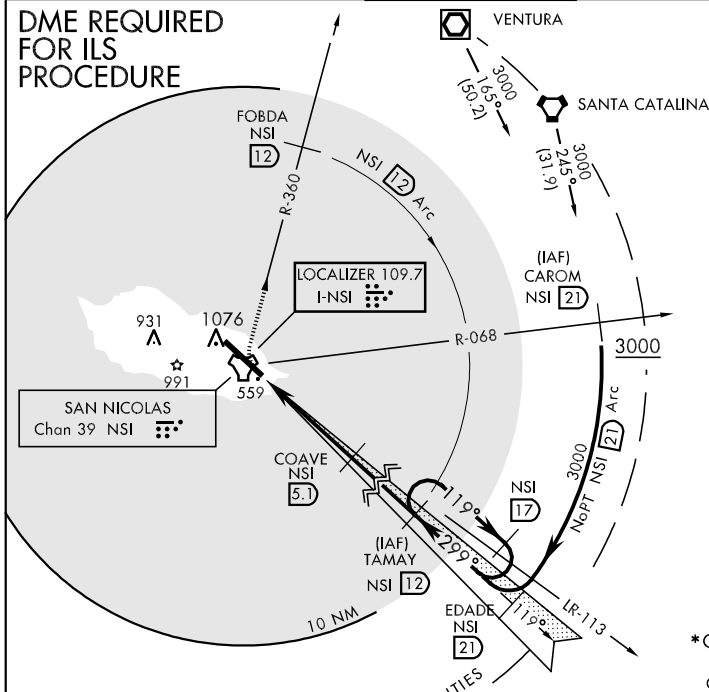


**Circling not authorized W of Rwy 12-30.

*MISSED APPROACH: Climbing right turn to 3000, intep NSI R-360 to FOBDA, then arc E on NSI 12 mile arc to TAMAY and hold.

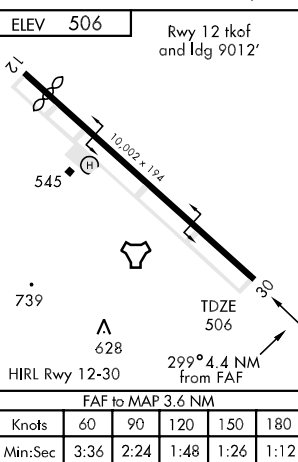
SAN NICOLAS TOWER ★
126.85 379.3

DME REQUIRED
FOR ILS
PROCEDURE



*CAUTION: Missed Approach
Minimum Climb Rate to 1300
Controlling Obstacle 1076'

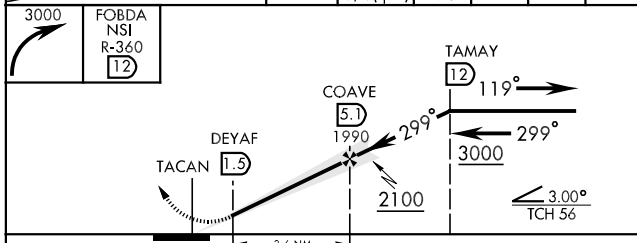
EMERG SAFE ALT 100 NM 10,900



ENROUTE FACILITIES

3000 FOBDA NSI R-360 [12]

	Knots	60	120	180	240
ILS	V/V(fpm)	240	480	720	960
LOC	V/V(fpm)	270	540	810	1080



CATEGORY	A	B	C	D	E
S-ILS 30		706-¾	200	(200-¾)	
S-LOC 30		760-1	254	(300-1)	
CIRCLING**	860-1 354 (400-1)	960-1 454 (500-1)	960-1½ 454 (500-1½)	1060-2	554 (600-2)

APCH CRS **299°** Rwy Idg **10,002**
 TDZE **506**
 Arpt Elev **506**

AL-5162 [USN]

SAN NICOLAS ISLAND NOLF

(NSI)



**Circling not authorized W of Rwy 12-30.

*MISSED APPROACH: Climb to 2000 via crs 299° to FEGAV, then climbing rgt turn to 3000 via crs 028° to FOBDA, then turn rgt via crs 103° to CAROM, then turn rgt via crs 215° to TAMAY and hold.

SAN NICOLAS TOWER ★
126.85 379.3

GPS REQUIRED FOR ILS PROCEDURE

VENTURA

108.2 VTU

Chan 19

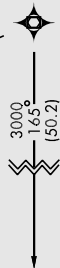


FOBDA

* CAUTION: Missed Approach Minimum
 Climb Rate to 1300 (ILS), 1400 (RNAV)

	Knots	60	120	180	240
ILS	V/V(fpm)	230	460	690	920
RNAV	V/V(fpm)	360	720	1080	1440

Controlling Obstacle 1076'



FEGAV

LOCALIZER 109.7
 I-NSI

931

1076'

991

RW30

(FAF) HILER

(IAF) CAROM

3000

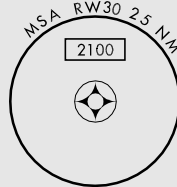
245°

(31.9)

SANTA CATALINA

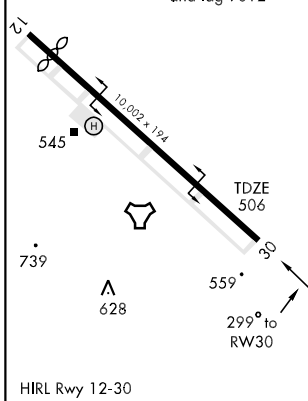
111.4 SXC

Chan 51

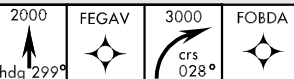


EMERG SAFE ALT 100 NM 10,900

ELEV 506

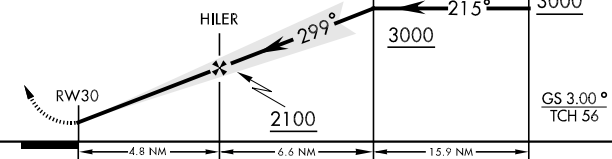
Rwy 12 tkof
and Idg 9012'

HIRL Rwy 12-30



TAMAY

CAROM



CATEGORY	A	B	C	D	E
S-ILS 30	706-3/4	200	(200-3/4)		
RNAV MDA	880-1	374 (400-1)		880-1 1/4 374 (400-1 1/4)	880-1 1/2 374 (400-1 1/2)
CIRCLING **	880-1 374 (400-1)	960-1 454 (500-1)	960-1 1/2 454 (500-1 1/2)	1060-2	554 (600-2)

TACAN NSI
Chan **39**

APCH CR
289°

Rwy Idg	10,001
TDZE	506
Arpt Elev	506

AL-5162 [USN]

SAN NICOLAS ISLAND NOLF

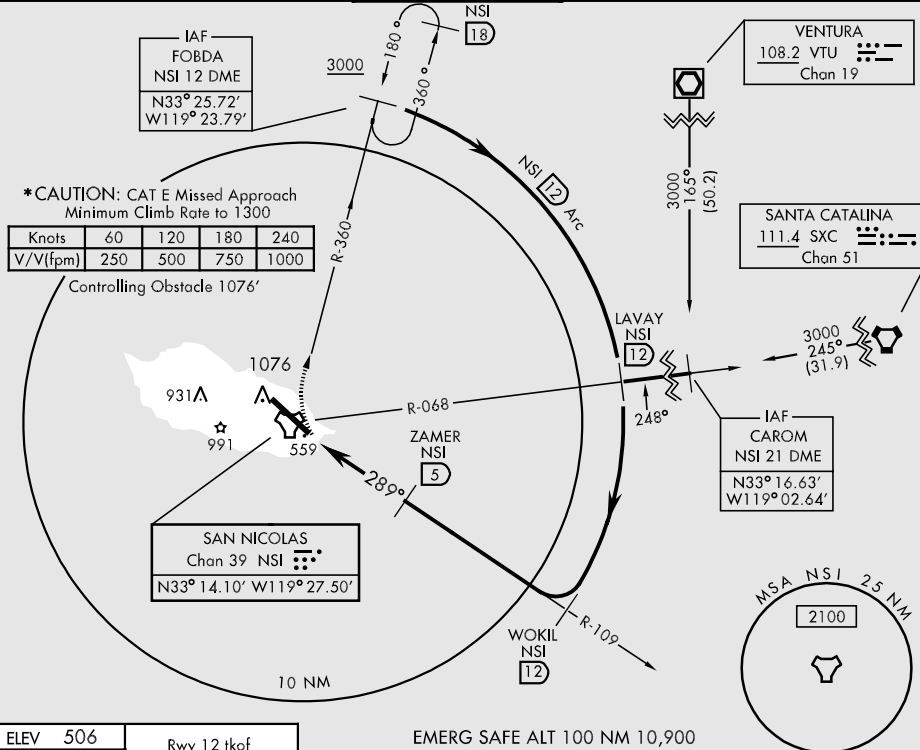
(NSI)



**Circling not authorized W of Rwy 12-30.

* MISSED APPROACH: Climbing right turn to 3000, intcp the NSI R-360 to FOBDA and hold.

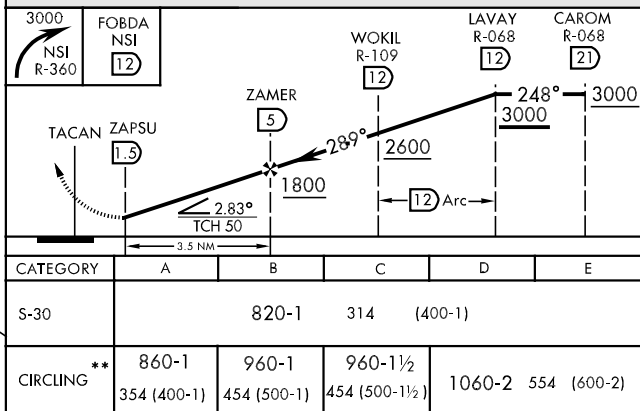
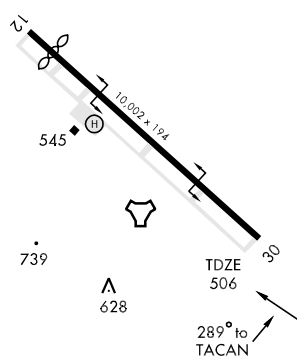
SAN NICOLAS TOWER ★
126.85 379.3



FLEV 506

Rwy 12 tkof
and lida 9012

EMERG SAFE ALT 100 NM 10.900

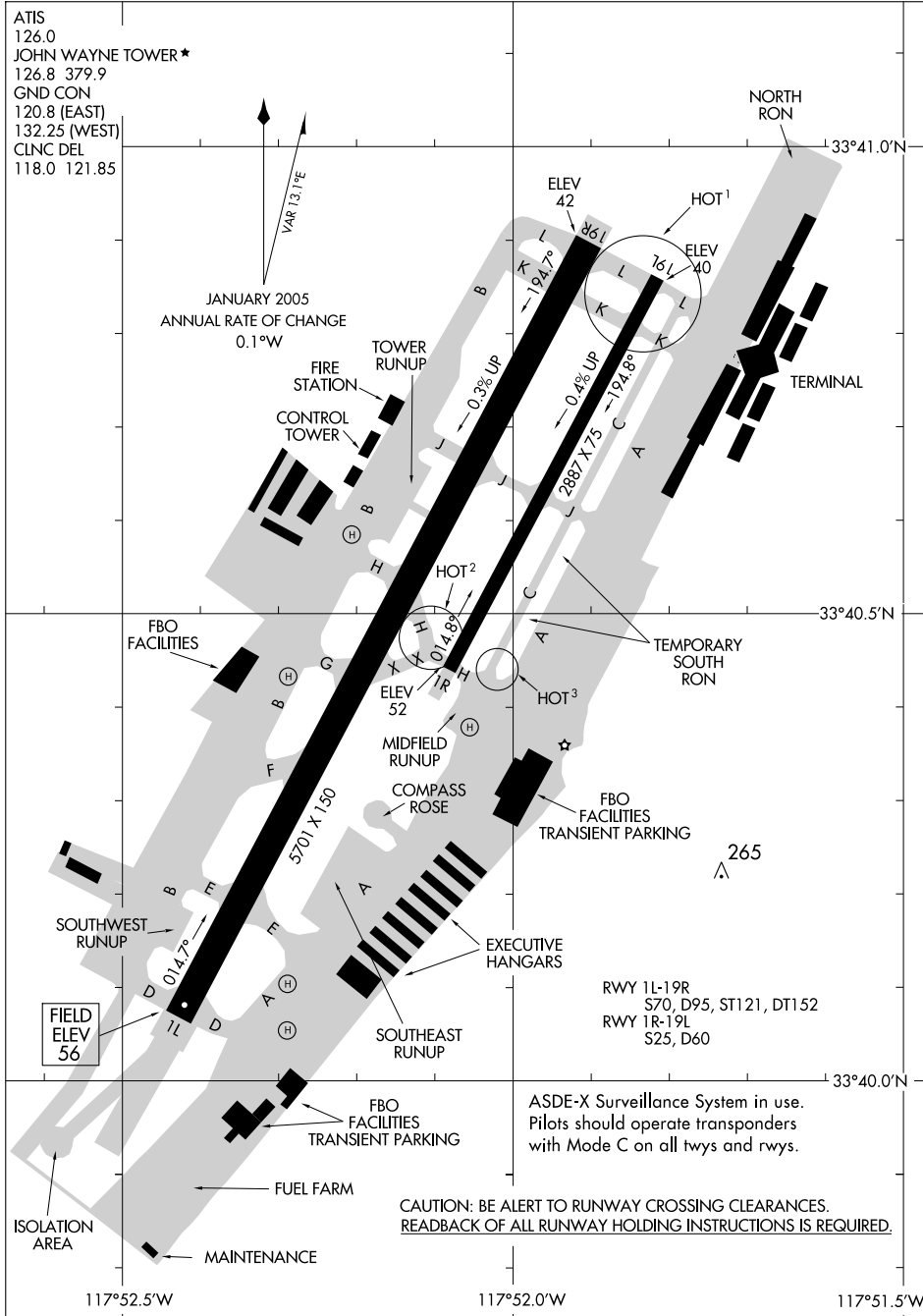


AIRPORT DIAGRAM

SANTA ANA / JOHN WAYNE ARPT-ORANGE COUNTY (SNA)

AL-377 (FAA)

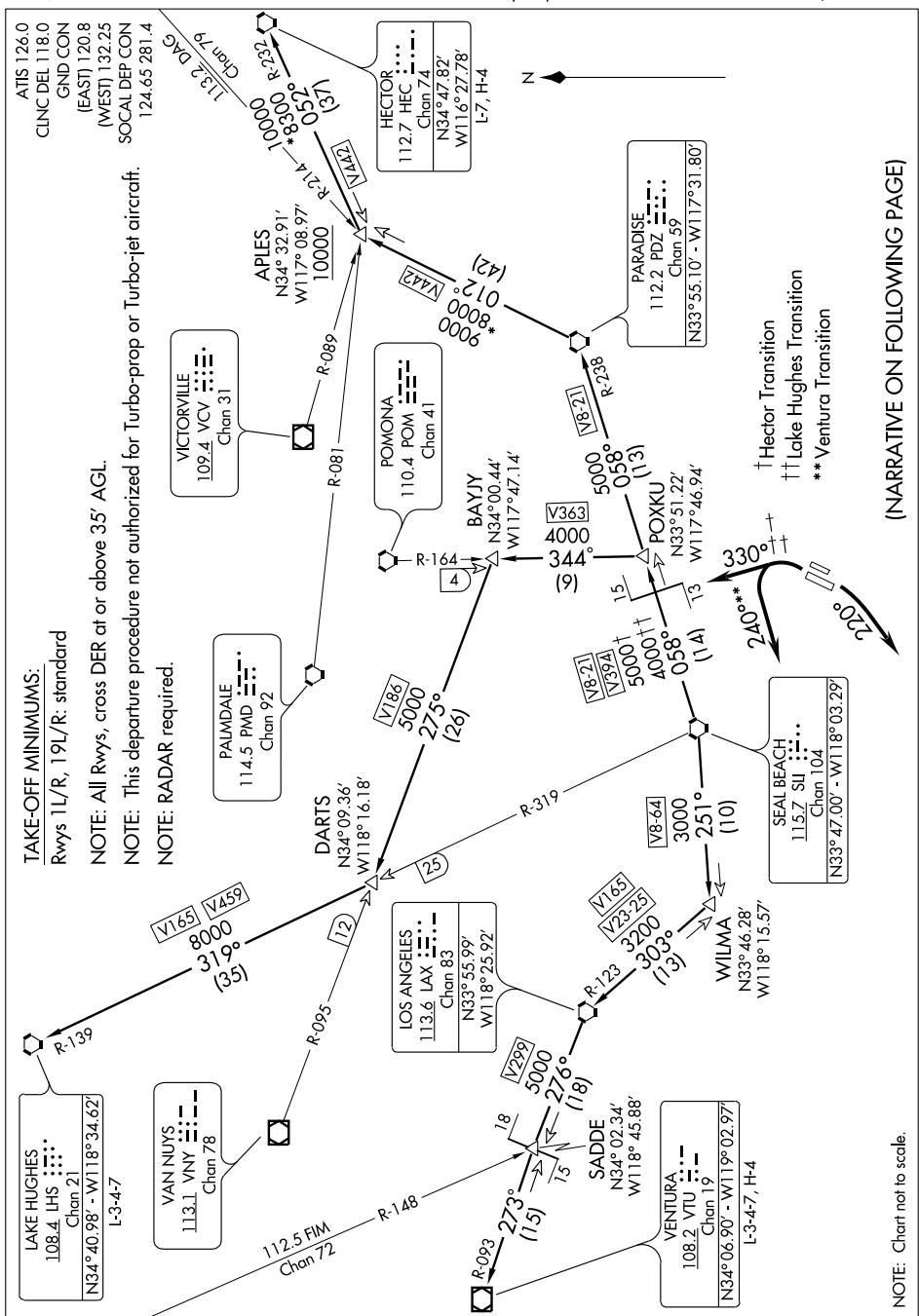
SANTA ANA, CALIFORNIA



ANAHEIM THREE DEPARTURE

SL-377 (FAA)

SANTA ANA, CALIFORNIA



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-3. 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 19L/R: Turn right heading 220° for radar vectors to SLI VORTAC. Thence....

TAKE-OFF RUNWAYS 1L/R:

HECTOR or LAKE HUGHES TRANSITION: Turn left heading 330° for radar vectors to SLI VORTAC. Thence....

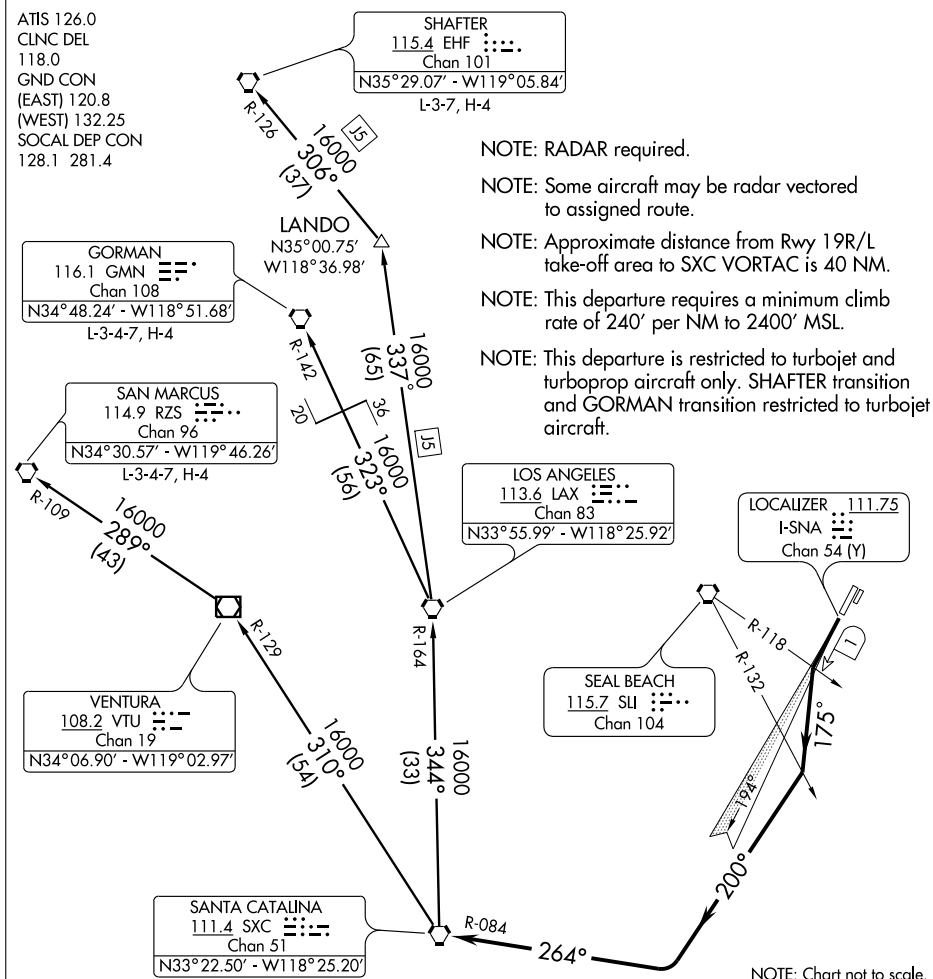
VENTURA TRANSITION: Turn left heading 240° for radar vectors to LAX VORTAC. Thence....

....via (transition) or (assigned route). Maintain 2000 feet. Expect clearance to filed altitude 10 minutes after departure.

HECTOR TRANSITION (ANAHM3.HEC): From over SLI VORTAC via SLI R-058 and PDZ R-238 to PDZ VORTAC, then via PDZ R-012 and HEC R-232 to HEC VORTAC.

LAKE HUGHES TRANSITION (ANAHM3.LHS): From over SLI VORTAC via SLI R-058 and PDZ R-238 to POXKU INT, then via POM R-164 to BAYJY INT, then via VNY R-095 to DARTS INT. Thence via SLI R-319 and LHS R-139 to LHS VORTAC.

VENTURA TRANSITION (ANAHM3.VTU): From over SLI VORTAC via SLI R-251 to WILMA INT, then via LAX R-123 to LAX VORTAC, then via LAX R-276 and VTU R-093 to VTU VOR/DME.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19L/R: Maintain runway heading or I-SNA localizer south course to I-SNA 1 DME fix or SLI R-118, turn left heading 175°, cross SLI R-132 then turn right heading 200°, intercept and proceed via SXC R-084 to SXC VORTAC, thence via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

GORMAN TRANSITION (CHANL1.GMN): From over SXC VORTAC via SXC R-344 and LAX R-164 to LAX VORTAC, then via LAX R-323 and GMN R-142 to GMN VORTAC.

SAN MARCUS TRANSITION (CHANL1.RZS): From over SXC VORTAC via SXC R-310 and VTU R-129 to VTU VOR/DME, then via VTU R-289 and RZS R-109 to RZS VORTAC.

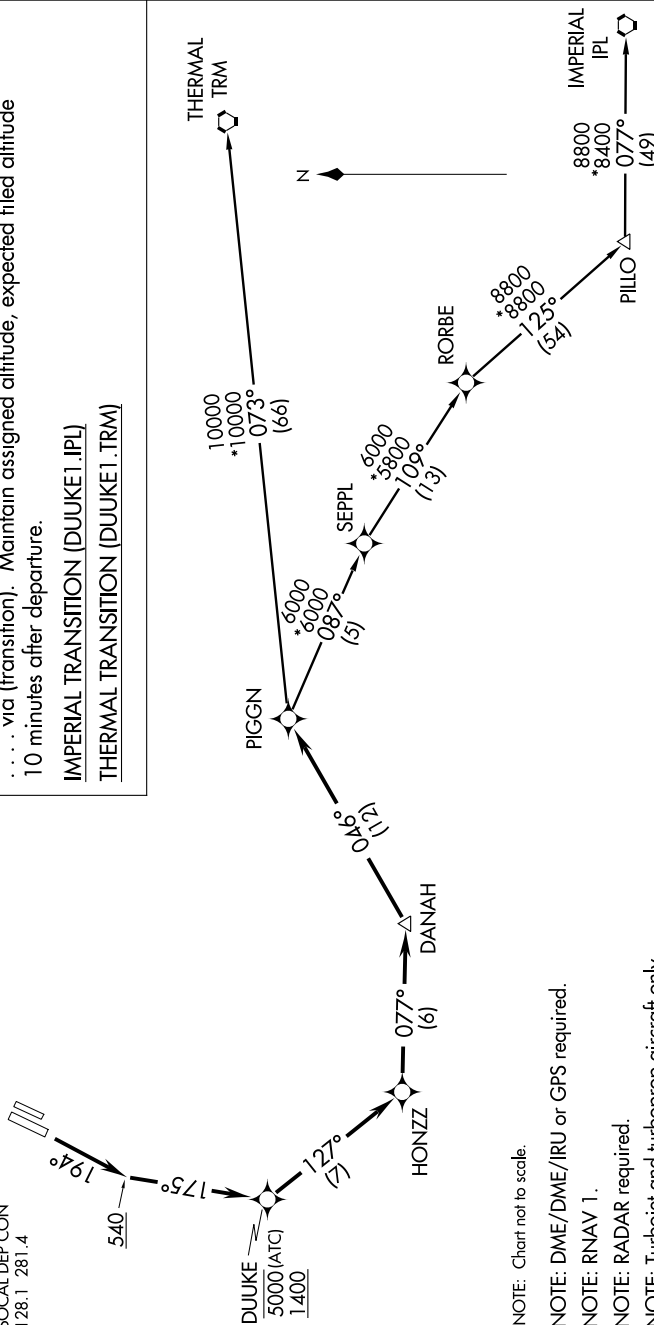
SHAFTER TRANSITION (CHANL1.EHF): From over SXC VORTAC via SXC R-344 and LAX R-164 to LAX VORTAC, then via LAX R-337 to LANDO INT and EHF R-126 to EHF VORTAC.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19R: Climb heading 194° to at or above 540, then intercept 175° course to DUUKE, then via depicted route to PIGGN, thence via (transition). Maintain assigned altitude, expected filed altitude 10 minutes after departure.

IMPERIAL TRANSITION (DUUKE1.IPL)

THERMAL TRANSITION (DUUKE1.TRM)



NOTE: Chart not to scale.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: RADAR required.

NOTE: Turbojet and turboprop aircraft only.

NOTE: Aircraft may be vectored to DANAH or PIGGN.

TAKE-OFF MINIMUMS

Rwys 1L/R and 19L: NA - ATC.

Rwy 19R: Standard, ATC climb of 365' per NM to 540.

TAKE-OFF OBSTACLE NOTES

RWY 19R: Windsock on hangar 536' from DER, 605' left of centerline, 44' AGL/92' MSL.

Multiple trees beginning 289' from DER, 500' right of centerline, up to 52' AGL/108' MSL.

Light poles beginning 204' from DER, 490' right of centerline, up to 35' AGL/85' MSL.

Tree 1574' from DER, 765' left of centerline, 59' feet AGL/113' MSL.



DEPARTURE ROUTE DESCRIPTION

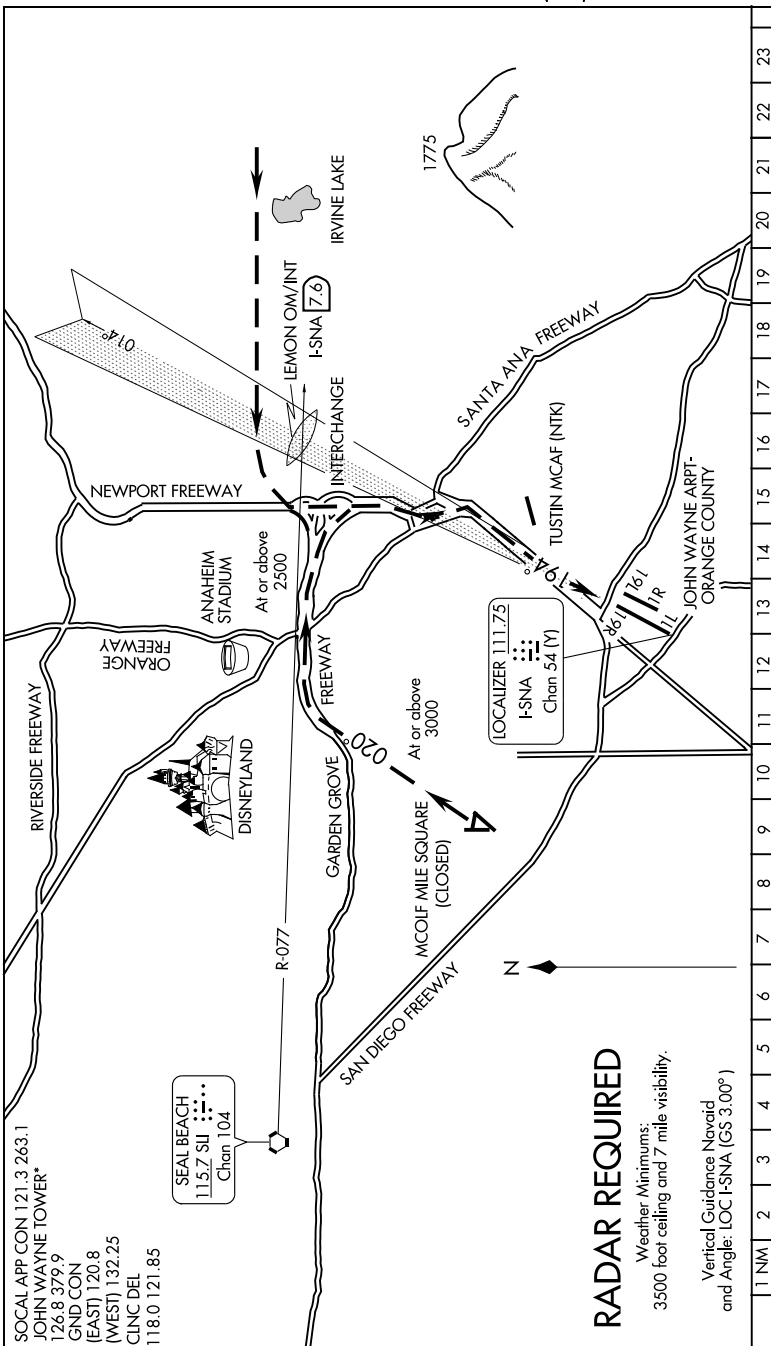
TAKE-OFF RUNWAY 1L: Climb heading 014° for vectors to ELB VOR/DME, then via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by ELB R-332, turn right direct ELB VOR/DME, climb to 7000 and proceed via assigned transition or route. Climb to filed altitude ten minutes after departure.

IMPERIAL TRANSITION (ELB1.IPL): From over ELB VOR/DME via ELB R-095 to JARDO INT, then via PDZ R-135 to WODON INT, then via MZB R-076 and IPL R-258 to GWIRE INT, then via IPL R-258 to IPL VORTAC.

OCEANSIDE TRANSITION (ELB1.OCN): From over ELB VOR/DME via ELB R-165 to SUBMR, then via OCN R-282 to OCN VORTAC.

THERMAL TRANSITION (ELB1.TRM): From over ELB VOR/DME via ELB R-095 to BOLDE INT, then via SXC R-061 to TEYKI INT, then via TRM R-263 to TRM VORTAC.



RADAR REQUIRED

Weather Minimums:
3500 foot ceiling and 7 mile visibility.

Vertical Guidance Noaid
and Angle: LOC I-SNA (GS 3.00°)

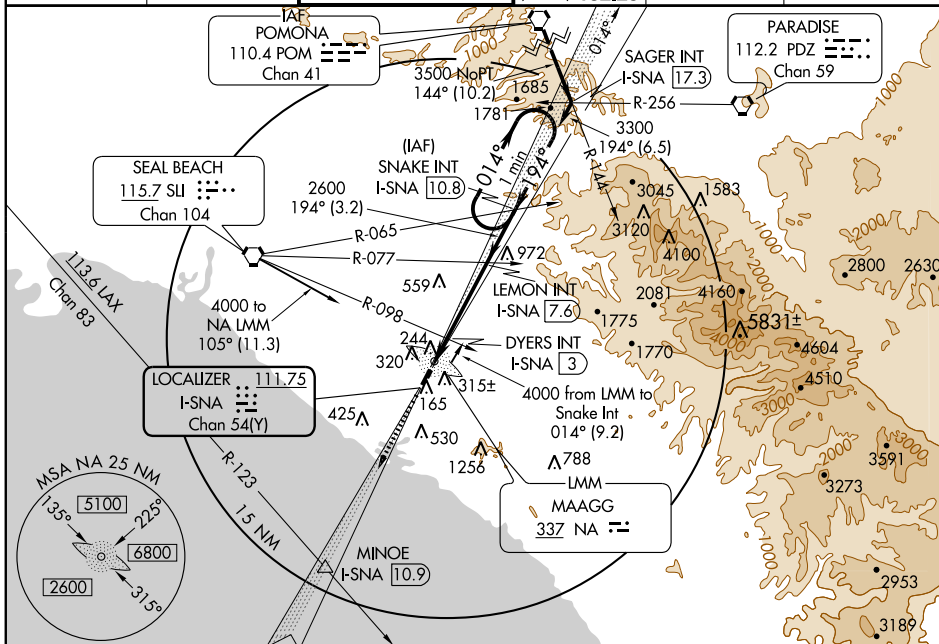
FREEWAY VISUAL RWY 19R
PROCEDURE NOT AUTHORIZED AT NIGHT

LOC/DME I-SNA 111.75 Chan 54(Y)	APP CRS 194°	Rwy Idg TDZE Apt Elev	5701 55 56
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SANTA ANA/ JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

ILS or LOC RWY 19R

* RVR 1800 authorized with the use of FD or AP or HUD to DA		MALSR </
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ELEV 56 194° 6.5 NM from FAF TDZE 55 118 150 104 210±	3000 ↑ I-SNA S crs MINOE △	SNAKE INT I-SNA [10.8] One Minute Holding Pattern 014° 194° 3300 GS 3.00° TCH 50				
REIL Rwy 19L MIRL Rwy 1R-19L HIRL Rwy 1L-19R FAF to MAP 6.5 NM	0.5 1.4 NM 4.6 NM 3.2 NM	014° 194° 3300 GS 3.00° TCH 50				
Knots 60 90 120 150 180 Min:Sec 6:30 4:20 3:15 2:36 2:10	CATEGORY	A	B	C	D	
	S-ILS 19R	*255/24 200 (200-½)				
	S-LOC 19R	760/24	705 (800-½)	760-1½ 705 (800-1½)	760-1¾ 705 (800-1¾)	
	CIRCLING	760-1	704 (800-1)	760-2 704 (800-2)	760-2¼ 704 (800-2¼)	
	DYERS FIX MINIMUMS					
	S-LOC 19R	440/24 385 (400-½)			440/40 385 (400-¾)	
	CIRCLING	660-1	604 (700-1)	660-1¾ 604 (700-1¾)	660-2 604 (700-2)	

SW-3. 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1L: Climb heading 014° for vectors to ELB R-215, then via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control by ELB R-332, turn right direct ELB VOR/DME, climb to 7000 and proceed via assigned transition or route. Climb to filed altitude ten minutes after departure.

DAGGETT TRANSITION (IRV1.DAG): From over ELB VOR/DME via ELB R-215 to JAGLO INT, then via SLI R-148 to SLI VORTAC, then via SLI R-022 and POM R-202 to POM VORTAC, then via POM R-033 to GARDY INT, then via DAG R-214 to DAG VORTAC.

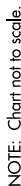
GORMAN TRANSITION (IRV1.GMN): From over ELB VOR/DME via ELB R-215 to GOKEY INT, then via SXC R-084 to SXC VORTAC, then via SXC R-344 and LAX R-164 to LAX VORTAC, then via LAX R-323 and GMN R-142 to GMN VORTAC.

SAN MARCUS TRANSITION (IRV1.RZS): From over ELB VOR/DME via ELB R-215 to GOKEY INT, then via SXC R-084 to SXC VORTAC, then via SXC R-310 and VTU R-129 to VTU VOR/DME, then via VTU R-289 and RZS R-109 to RZS VORTAC.

SEAL BEACH TRANSITION (IRV1.SLI): From over ELB VOR/DME via ELB R-215 to JAGLO INT, then via SLI R-148 to SLI VORTAC.

SHAFTER TRANSITION (IRV1.EHF): From over ELB VOR/DME via ELB R-215 to GOKEY INT, then via SXC R-084 to SXC VORTAC, then via SXC R-344 and LAX R-164 to LAX VORTAC, then via LAX R-337 to LANDO INT, then via EHF R-126 to EHF VORTAC.

LONG BEACH, CALIFORNIA



LOC/DME I-OJW 108.3 Chan 20	APP CRS 181°	Rwy Idg 5701 TDZE 52 Apt Elev 54
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LDA RWY 19R

SANTA ANA/JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)



MAISR



MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct SLI VORTAC.

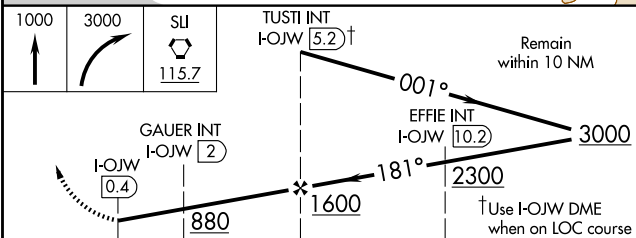
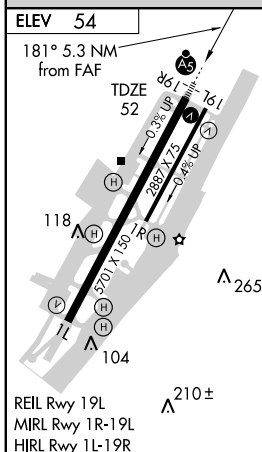
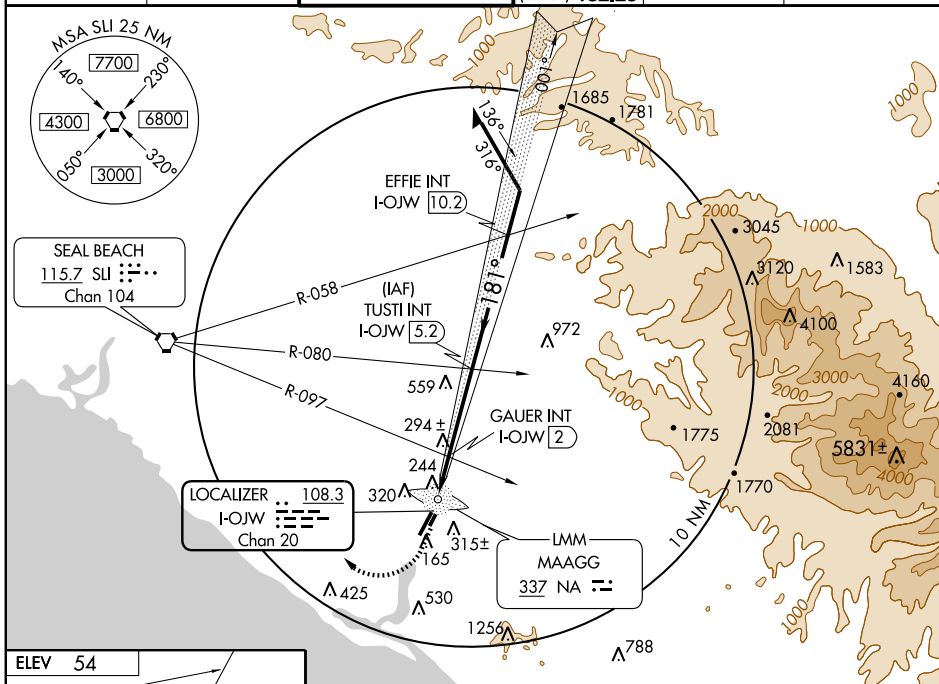
ATIS
126.0

SOCAL APP CON
121.3 263.1

JOHN WAYNE TOWER★
126.8 (CTAF) **L** 379.9

GND CON
(EAST) **120.8**
(WEST) **132.25**

CLNC DEL
118.0 121.85

UNICOM
122.95

	0.5	1.6 NM	3.2 NM	5 NM	
CATEGORY	A		B	C	D
S-19R	880/24 828 (900-½)		880/40 828 (900-¾)	880-2 828 (900-2)	880-2¼ 828 (900-2¼)
CIRCLING	880-1 826 (900-1)		880-1¼ 826 (900-1¼)	880-2½ 826 (900-2½)	880-2¾ 826 (900-2¾)
GAUER FIX MINIMUMS					
S-19R	480/24 428 (500-½)			480/40 428 (500-¾)	480/50 428 (500-1)
CIRCLING	660-1 606 (700-1)			660-1¾ 606 (700-1¾)	660-2 606 (700-2)

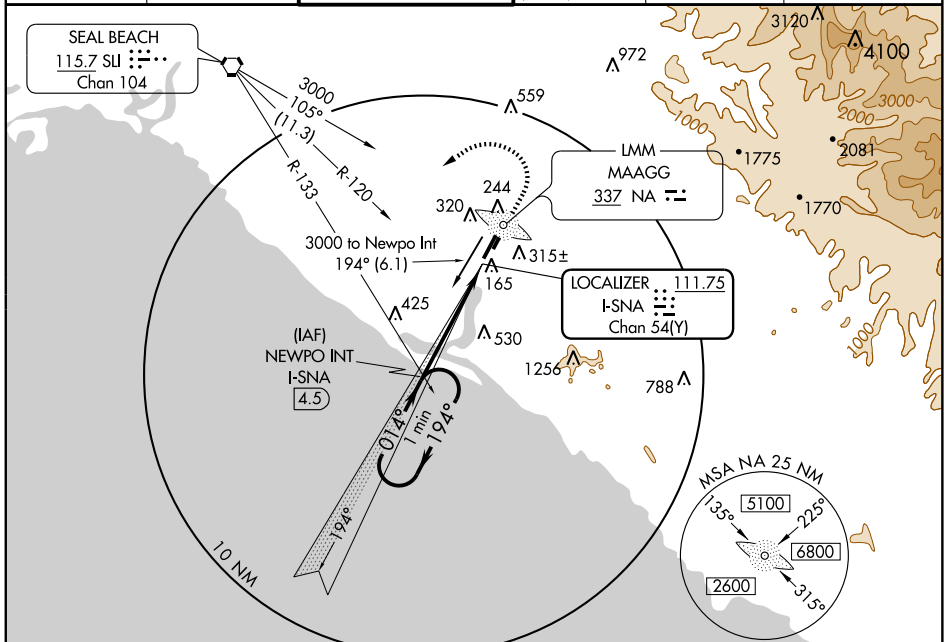
LOC/DME I-SNA 111.75 Chan 54(Y)	APP CRS 014°	Rwy Idg TDZE Apt Elev	5701 54 54
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SANTA ANA/ JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

LOC BC RWY 1L

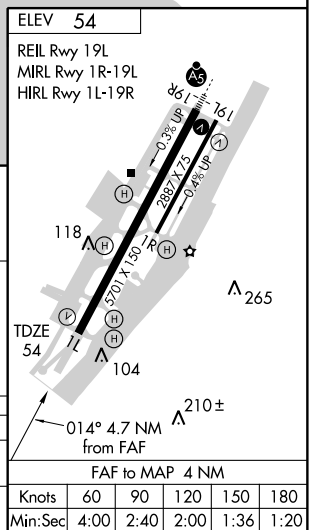
MISSED APPROACH: Climb to 800, then climbing left turn to 2300 via SLI R-120 to SLI VORTAC.	
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ATIS 126.0	SOCAL APP CON 121.3 263.1	JOHN WAYNE TOWER★ 126.8 (CTAF) 0 379.9	GND CON (EAST) 120.8 (WEST) 132.25	CLNC DEL 118.0 121.85	UNICOM 122.95
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BACK COURSE

One Minute Holding Pattern 					NEWPO INT I-SNA 4.5 I-SNA 1 I-SNA 0.5 3.21° TCH 51 3.5 NM 0.5 0.7					800 2300 SLI SLI R-120 115.7				
2000 ← 194° 014° → 1700					VGSi and descent angles not coincident. Disregard glideslope indications.					CATEGORY A B C D S-1L 480-1 426 (500-1) 480-1¼ 426 (500-1¼) CIRCLING 660-1 606 (700-1) 660-1¾ 606 (700-1¾) 660-2 606 (700-2)				



MUSEL SIX DEPARTURE

ATIS 126.0
CLNC DEL
118.0
GND CON
(EAST) 120.8
(WEST) 132.25
SOCAL DEP CON
128.1 281.4

POMONA
110.4 POM 
Chan 41

SEAL BEACH
115.7 SLI $\frac{1}{2}$..
Chan 104
N33°47.00'
W118°03.29'
I-3-4, H-4

LOCALIZER 111.75
I-SNA
Chan 54 (Y)

PARADISE
112.2 PDZ 
Chan 59

PALM SPRINGS
115.5 PSP ::::=
Chan 102

SANTA CATALINA
111.4 SXC $\frac{2}{2} \frac{2}{2} \frac{2}{2}$
Chan 51

OCEANSIDE
115.3 OCN 
Chan 100
N33°14.44' - W117°25.06'
L-4, H-4

THERMAL
116.2 TRM 
Chan 109
N33°37.69'
W116°09.61'
L-4, H-4

NOTE: Chart not to scale.

NOTE: This departure requires a minimum climb rate of 240' per NM to 2400' MSI.

NOTE: This departure restricted to turbojet and turboprop aircraft only.

NOTE: Radar required.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19L/R: Maintain runway heading or I-SNA localizer south course to I-SNA 1 DME fix or SLI R-118, turn left heading 175° for radar vectors to MUSEL INT, then via (transition) or (assigned route). Expect filed altitude ten minutes after departure.

DAGGETT TRANSITION (MUSEL6.DAG): From over MUSEL INT via SLI R-150 to SLI VORTAC, then via SLI R-022 and POM R-202 to POM VORTAC, then via POM R-033 and DAG R-214 to DAG VORTAC.

OCEANSIDE TRANSITION (MUSEL6.OCN): From over MUSEL INT via OCN R-282 to OCN VORTAC.

SEAL BEACH TRANSITION (MUSEL6.SLI): From over MUSEL INT via SLI R-150 to SLI VORTAC.

THERMAL TRANSITION (MUSEL6.TRM): From over MUSEL INT via SXC R-061 and TRM R-263 to TRM VORTAC.

AL-377 (FAA)

LMM NA
337

APP CRS
181°

Rwy Idg	5701
TDZE	52
Apt Elev	54

SANTA ANA/JOHN WAYNE AIRPORT-ORANGE COUNTY (SNA)

NDB RWY 19R



MAISR



MISSED APPROACH: Climb to 1000 via heading 190°, then climbing right turn to 3000 direct SLI VORTAC.

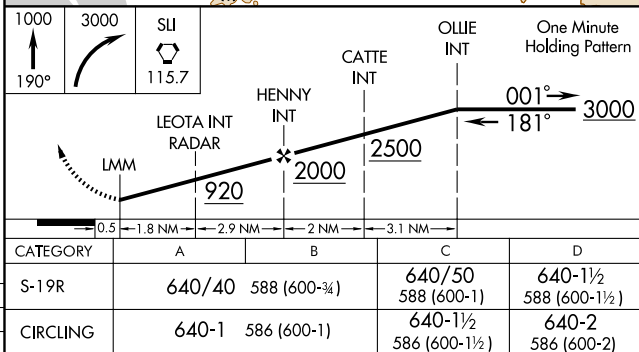
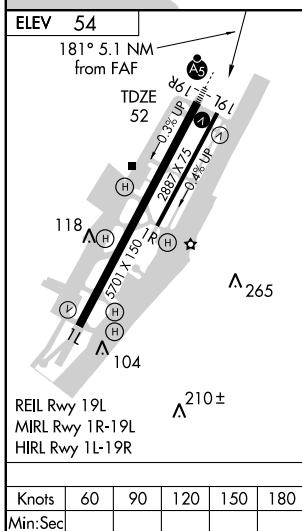
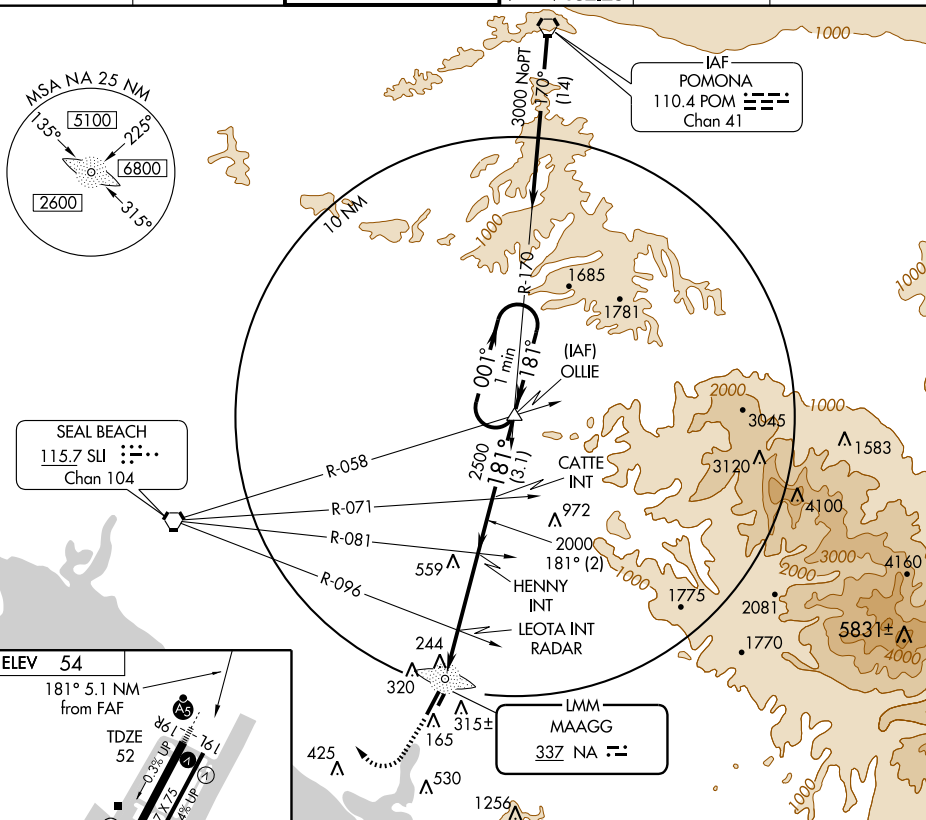
ATIS
126.0

SOCAL APP CON
121.3 263.1

JOHN WAYNE TOWER★
126.8 (CTAF) **L** 379.9

GND CON
(EAST) **120.8**
(WEST) **132.25**

CLNC DEL
118.0 121.85

UNICOM
122.95

SW-3. 14 JAN 2010 to 11 FEB 2010

NA

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 800 then climbing left turn to 2600 direct SLI VORTAC and hold.

ATIS 126.0	SOCAL APP CON 121.3 263.1	JOHN WAYNE TOWER ★ 126.8 (CTAF) 379.9	GND CON (EAST) 120.8 (WEST) 132.25	CLNC DEL 118.0 121.85	UNICOM 122.95
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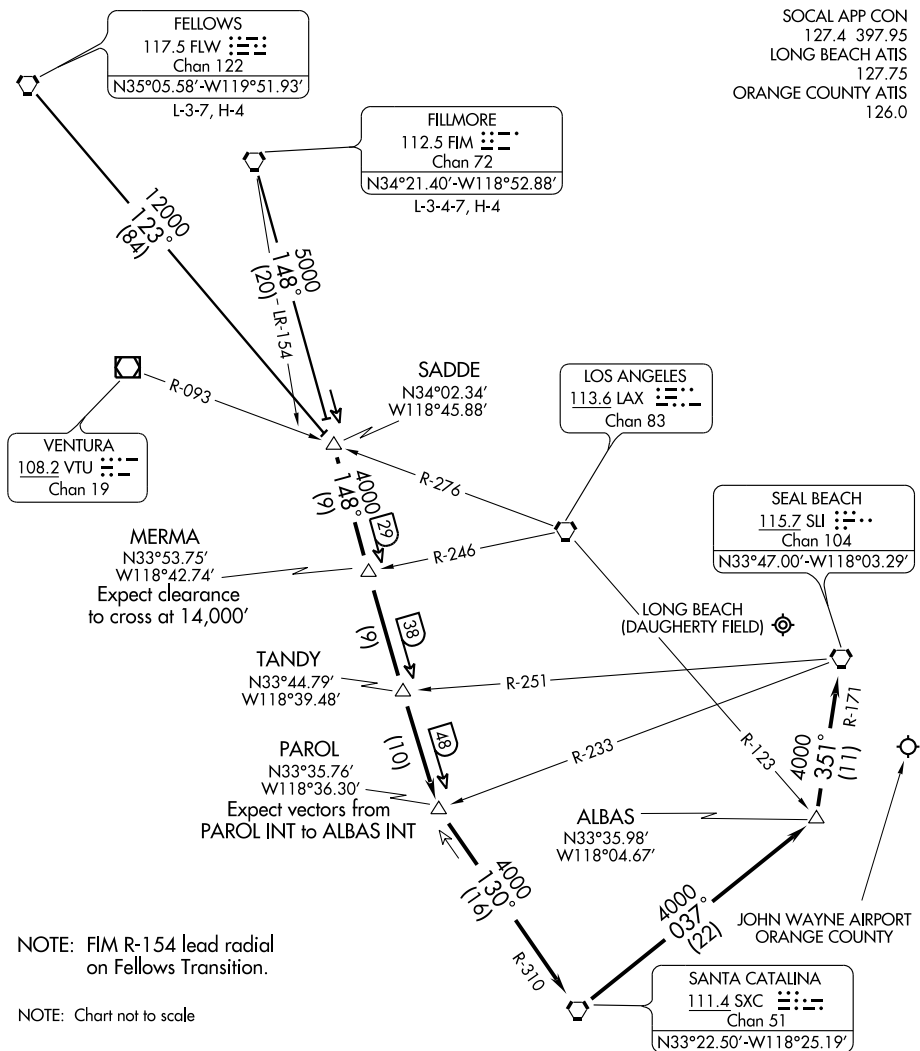
5 NM Holding Pattern				
MINOE				
NEWPO				
2 NM to RW01L				
RW01L				
CATEGORY	A	B	C	D
RNAV MDA	520-1	466 (500-1)	520-1¼ 466 (500-1¼)	520-1½ 466 (500-1½)
CIRCLING	640-1	586 (600-1)	640-1½ 586 (600-1½)	640-2 586 (600-2)

SW-3, 14 JAN 2010 to 11 FEB 2010

TANDY THREE ARRIVAL

ST-236 (FAA)

LONG BEACH, CALIFORNIA



SW-3, 14 JAN 2010 to 11 FEB 2010

FELLOWS TRANSITION (FLW.TANDY3): From over FLW VORTAC via FLW R-123 to SADDE INT. Thence....

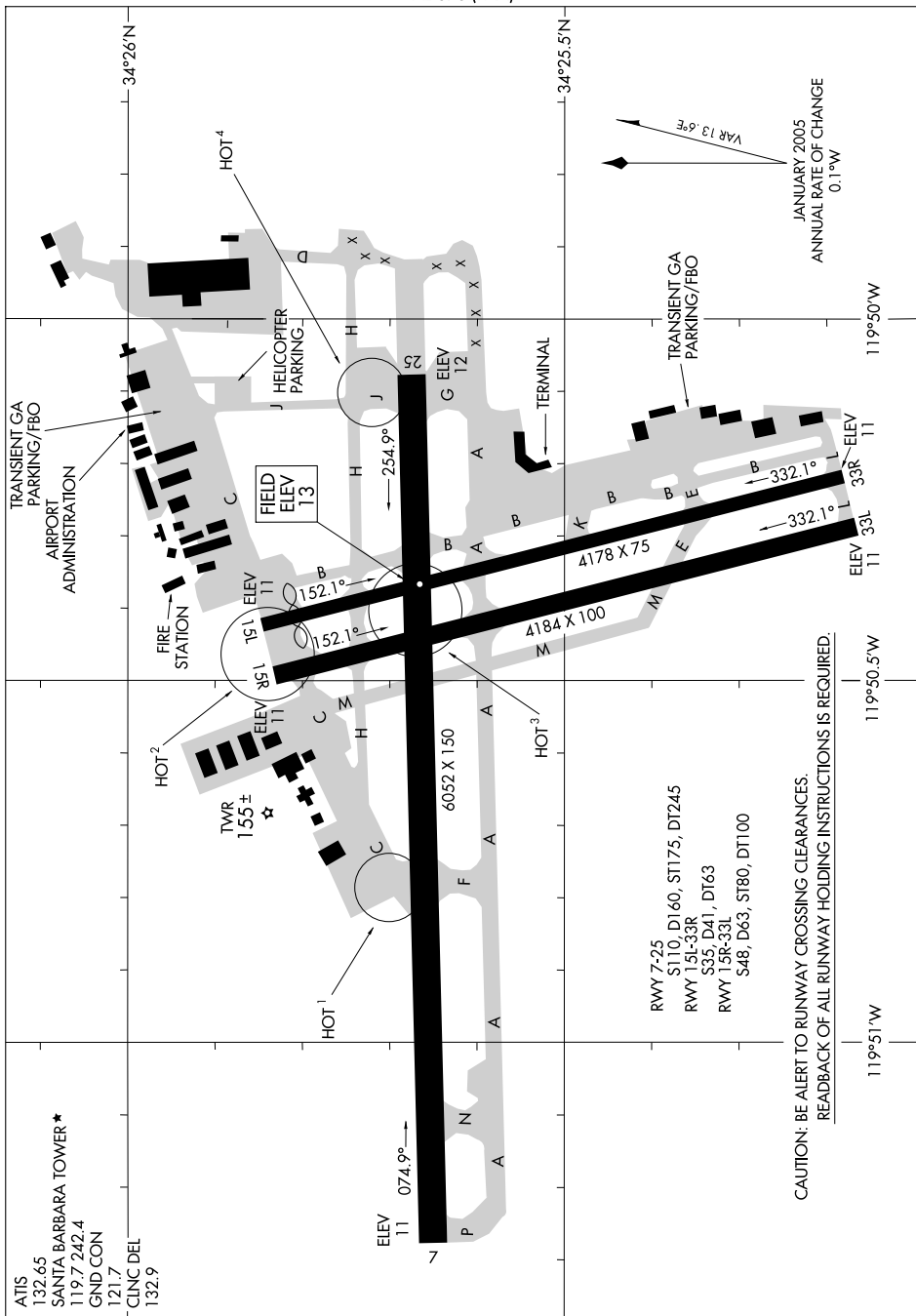
FILLMORE TRANSITION (FIM.TANDY3): From over FIM VORTAC via FIM R-148 to SADDE INT. Thence....

....From over SADDE INT via FIM R-148 to PAROL INT. From over PAROL INT via SXC R-310 to SXC VORTAC. Then from over SXC VORTAC via SXC R-037 and SLI R-171 to SLI VORTAC.

AIRPORT DIAGRAM

AL-378 (FAA)

SANTA BARBARA AERODROME (SBA)
SANTA BARBARA, CALIFORNIA



ATIS 132.65

CLNC DEL

132.9

GND CON

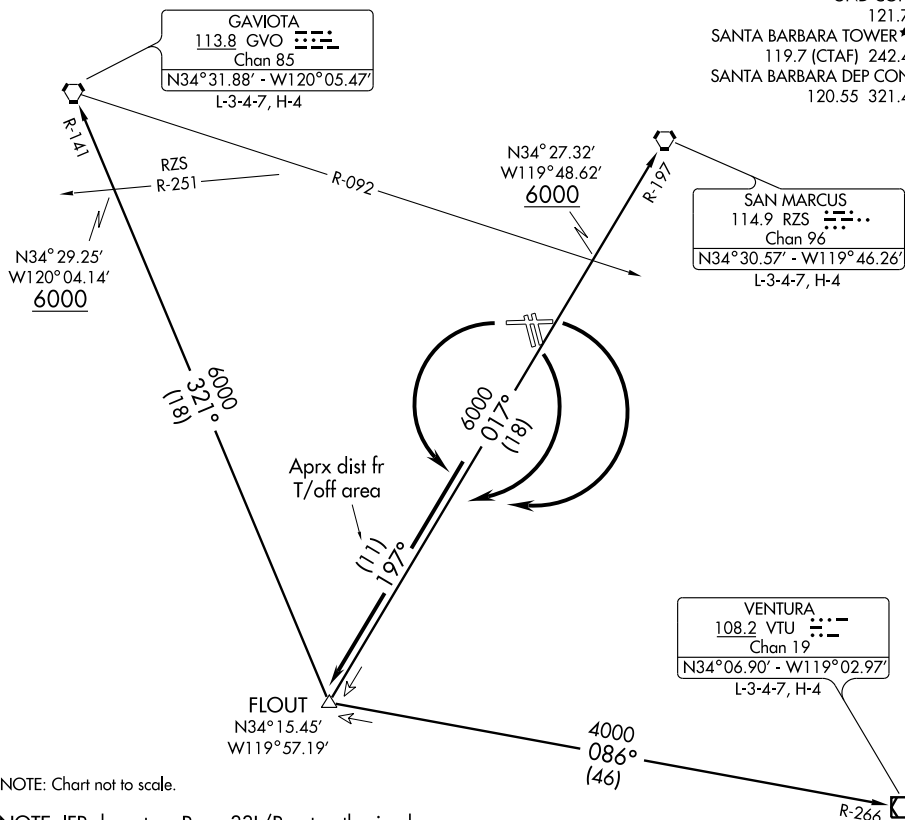
121.7

SANTA BARBARA TOWER*

119.7 (CTAF) 242.4

SANTA BARBARA DEP CON

120.55 321.4



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 and 15L/R: Turn right, thence. . .

TAKE-OFF RUNWAY 25: Turn left, thence. . .

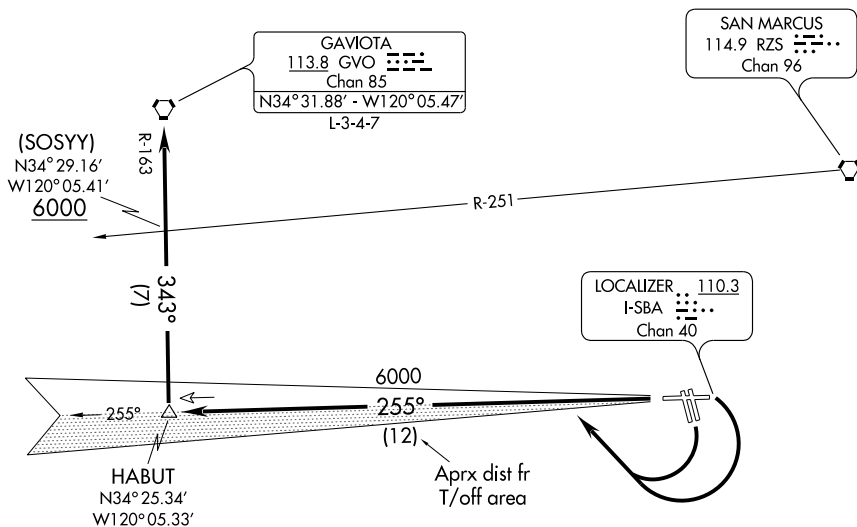
. . . intercept and proceed via RZS R-197 to FLOUT INT. Thence via (transition or assigned route.)

GAVIOTA TRANSITION (FLOUT5.GVO): From over FLOUT INT via GVO R-141 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

SAN MARCUS TRANSITION (FLOUT5.RZS): From over FLOUT INT via RZS R-197 to RZS VORTAC. Cross GVO R-092 at or above 6000'.

VENTURA TRANSITION (FLOUT5.VTU): From over FLOUT INT via VTU R-266 to VTU VOR/DME.

ATIS 132.65
 CLNC DEL
 132.9
 GND CON
 121.7
 SANTA BARBARA TOWER ★
 119.7 (CTAF) 242.4
 SANTA BARBARA DEP CON
 120.55 321.4



NOTE: IFR departure Rwys 33L/R not authorized.

NOTE: Minimum (ATC) climb of 385' per NM to 6000.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 and 15L/R: Turn right, intercept I-SBA west course to HABUT INT, thence via GVO R-163 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

TAKE-OFF RUNWAY 25: Intercept I-SBA west course to HABUT INT, thence via GVO R-163 to GVO VORTAC. Cross RZS R-251 at or above 6000'.

LOC/DME I-SBA	APP CRS	Rwy Idg	6052
110.3	075°	TDZE	13
Chan 40		Apt Elev	13

ILS or LOC RWY 7

SANTA BARBARA MUNI (SBA)

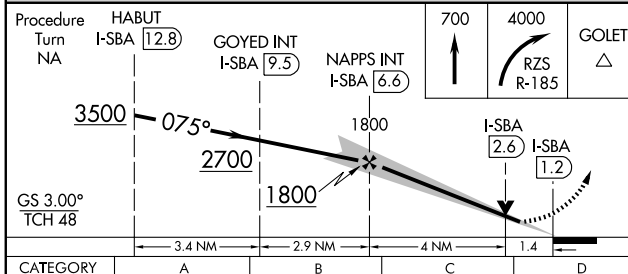
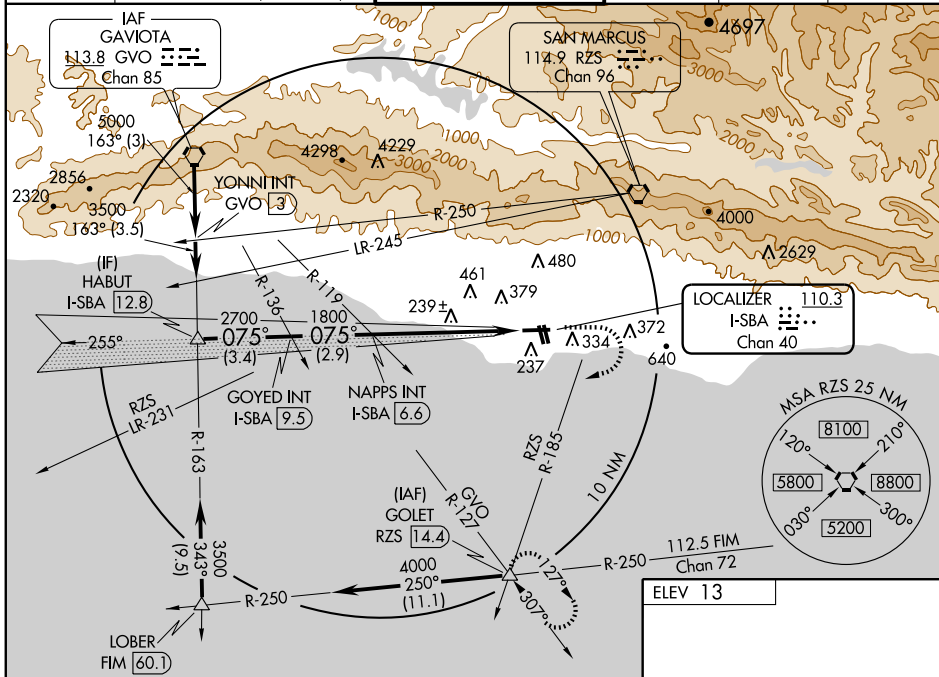
▼ When local altimeter setting not received, use Oxnard altimeter setting and increase all DAs/MDAs 100 feet, and S-LOC Cat. C visibility to RVR 5000, Cat. D visibility to RVR 6000. Increase Circling Cat. A visibility $\frac{1}{2}$ mile, Cat. C visibility $\frac{1}{2}$ mile.
▲ For inoperative MALSR when using Oxnard altimeter setting, increase S-ILS 7 all Cats. visibility to RVR 5000.
 * RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR



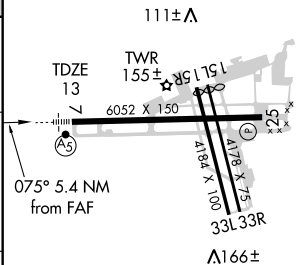
MISSED APPROACH: Climb to 700 then climbing right turn to 4000 via RZS VORTAC R-185 to GOLET INT/RZS 14.4 DME and hold, continue climb-in-hold to 4000.

ATIS 132.65	SANTA BARBARA APP CON 120.55 321.4 (151°-329°) 125.4 291.1 (330°-150°)	SANTA BARBARA TOWER★ 119.7 (CTAF) 0 242.4	GND CON 121.7	CLNC DEL 132.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 7	*213/24 200 (200-½)			
S-LOC 7	500/24 487 (500-½)	500/40 487 (500-¾)	500/50 487 (500-1)	
CIRCLING	800-1 787 (800-1)	800-1¼ 787 (800-1¼)	800-2¼ 787 (800-2¼)	1000-3 987 (1000-3)

ELEV 13



HIRL Rwy 7-25
 MIRL Rwy 15R-33L
 REIL Rwy 15R
 REIL Rwy 25

FAF to MAP 5.4 NM

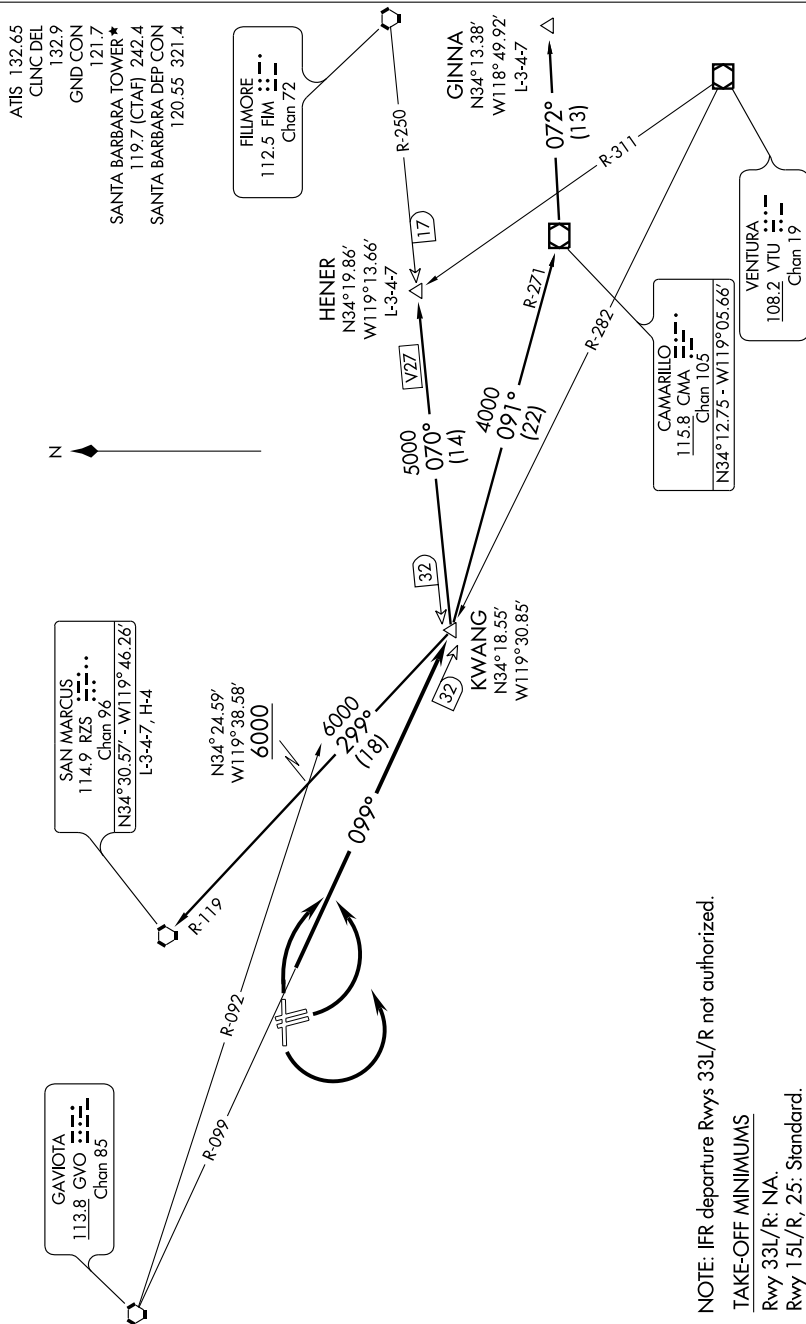
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

KWANG FIVE DEPARTURE

SL-378 (FAA)

SANTA BARBARA MUNI (SBA)

SANTA BARBARA, CALIFORNIA





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climbing right turn to intercept GVO VORTAC R-099 to KWANG INT thence. . . .

TAKE-OFF RUNWAYS 15L/R and 25: Climbing left turn to intercept GVO VORTAC R-099 to KWANG INT thence. . . .

. . . .via (transition) or (assigned route).

HENER TRANSITION (KWANG5.HENER): From over KWANG INT via FIM R-250 to HENER INT.

SAN MARCUS TRANSITION (KWANG5.RZS): From over KWANG INT via RZS R-119 to RZS VORTAC. Cross GVO R-092 at or above 6000'.

GINNA TRANSITION (KWANG5.GINNA): From over KWANG INT via CMA R-271 to CMA VOR/DME then via CMA R-072 to GINNA.

TAKE-OFF OBSTACLE NOTES

Rwy 7: OL on DME antenna, road, and numerous trees beginning 350' from DER, 101' right of centerline, up to 55' AGL/74' MSL. Antennas, poles, tower, and numerous trees beginning 194' from DER, 11' left of centerline, up to 79' AGL 98' MSL.

Rwy 15L: Numerous trees beginning 1242' from DER, 119' right of centerline, up to 100' AGL/159' MSL.

Rwy 15R: Sign and numerous trees beginning 29' from DER, 94' right of centerline, up to 100' AGL/159' MSL. Tree 1325' from DER, 243' left of centerline, 19' AGL/59' MSL.

Rwy 25: Trees beginning 1999' from DER, 793' right of centerline, up to 67' AGL/86' MSL.

RNAV (GPS) RWY 7
SANTA BARBARA MUNI (SBA)

MALSR

MISSED APPROACH: Climb to 4000 direct CESRA and right turn via 165° track to IYOBE and right turn via 251° track to GOLET and hold, continue climb-in-hold to 4000.

1960 • (IAF) AFOXY 17.8 1400 14.8 2800 1.48 (A) 1800 074° (6.3) (IF) ECEVA 2800 3.45° (9.5) (IAF) LOBER

4298 • 3000 4229 1000 2000 4000 • 2629 • 480 379 461 449± 145± 237 334 372 • 640

(FAF) NAPPS RW07 CESRA

For LNAV/VNAV fly visual to airport 074°-2.5 NM, when using Oxnard altimeter setting 2.9 NM.

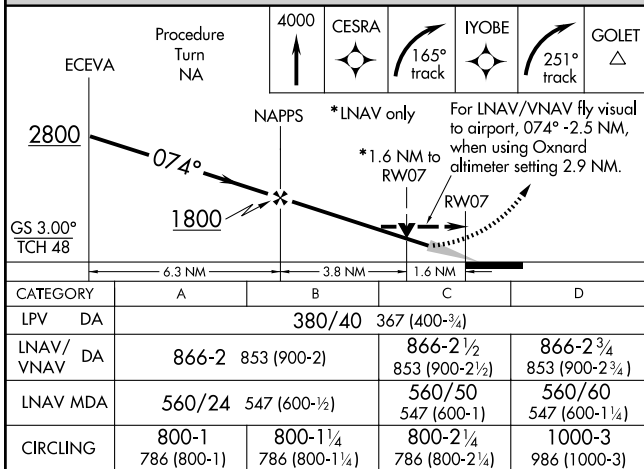
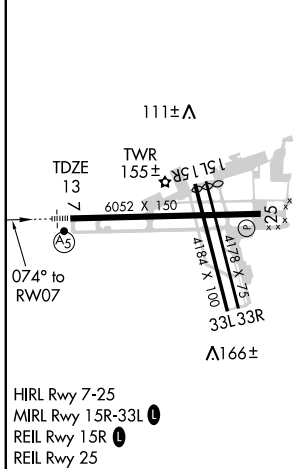
Procedure NA for arrivals at AFOXY via V27 northwest bound.

MSA RW07 25 NM 8100

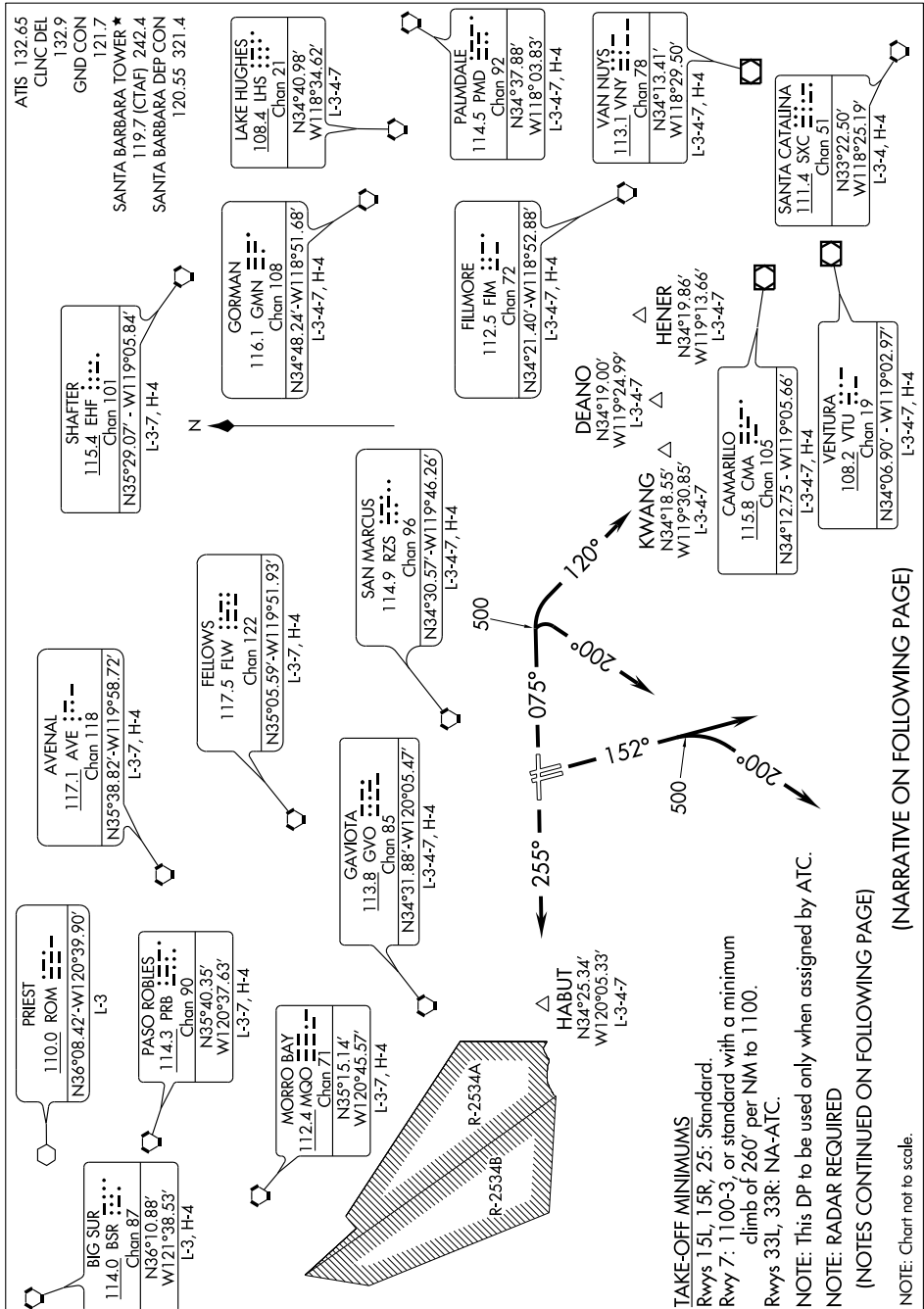
ELEV 14

4000 250° (11.1) GOLET 127° 307° 251° 5 NM IYOBE

SW-3. 14 JAN 2010 to 11 FEB 2010



SANTA BARBARA TWO DEPARTURE



SANTA BARBARA TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

SOUTH OR EAST ROUTE OF FLIGHT:

TAKE-OFF RUNWAY 7: Climb heading 075° to 500, then climbing right turn via heading 120°. Thence....

TAKE-OFF RUNWAYS 15L/15R: Climb heading 152°. Thence....

TAKE-OFF RUNWAY 25: Climb heading 255°. Thence....

....via radar vectors, maintain 3000. Expect further clearance to filed altitude 5 minutes after departure.

NORTH OR WEST ROUTE OF FLIGHT:

TAKE-OFF RUNWAY 7: Climb heading 075° to 500, then climbing right turn via heading 200°. Thence....

TAKE-OFF RUNWAYS 15L/15R: Climb heading 152° to 500, then climbing right turn via heading 200°. Thence....

TAKE-OFF RUNWAY 25: Climb heading 255°. Thence....

....via radar vectors, maintain 3000. Expect further clearance to filed altitude 5 minutes after departure.

TAKE-OFF OBSTACLE NOTES

Rwy 7: OL on lighted windsock, buildings, and multiple trees beginning 207' from DER, 244' left of centerline, up to 20' AGL/98' MSL.
Light poles and multiple trees beginning 938' from DER, 587' right of centerline, up to 20' AGL/74' MSL.

Rwy 15L: Multiple trees beginning 1289' from DER, 115' right of centerline, up to 20' AGL/65' MSL.

Rwy 15R: Trees 1325' from DER, 246' left of centerline, 20' AGL/59' MSL.
Trees 1287' from DER, 352' right of centerline, 20' AGL/65' MSL.

Rwy 25: Multiple trees beginning 118' from DER, 272' left of centerline, up to 20' AGL/127' MSL.
Multiple trees beginning 1354' from DER, 791' right of centerline, up to 40' AGL/105' MSL.

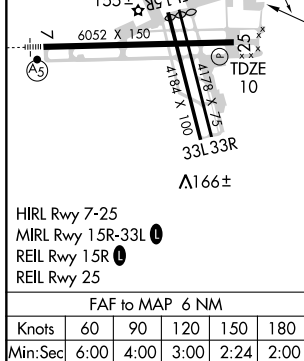
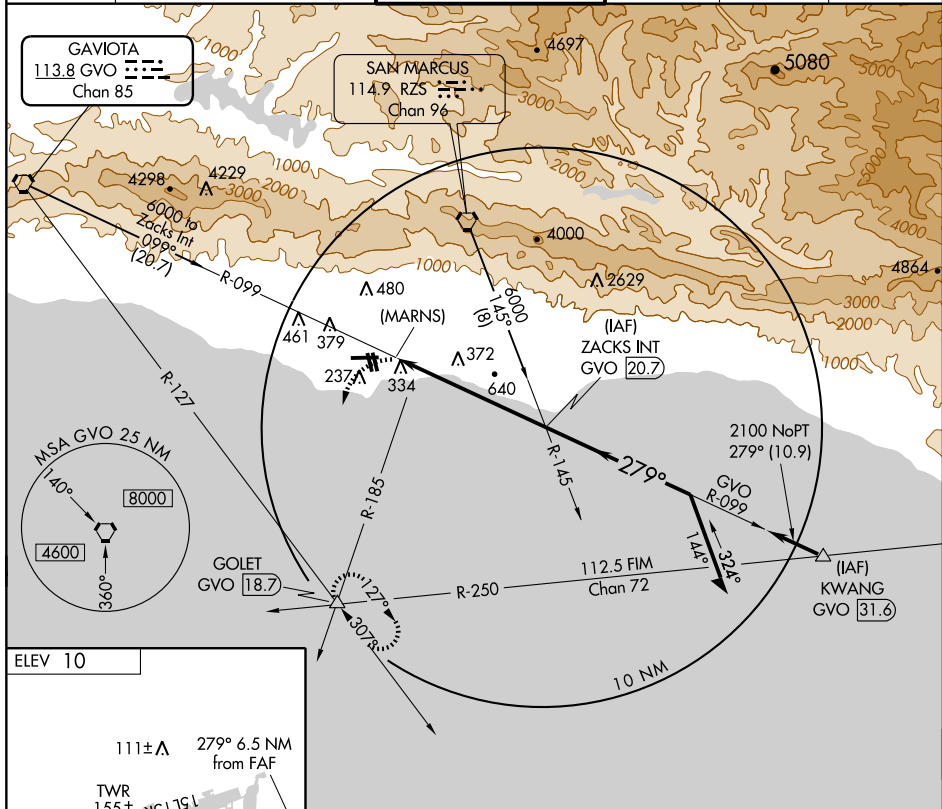
VORTAC GVO	APP CRS	Rwy Idg	6052
113.8	279°	TDZE	10
Chan 85		Apt Elev	10

VOR or GPS RWY 25

SANTA BARBARA MUNI (SBA)

V A		MISSED APPROACH: Climbing left turn to 4000 via heading 205° and GVO R-127 to GOLET Int and hold.			
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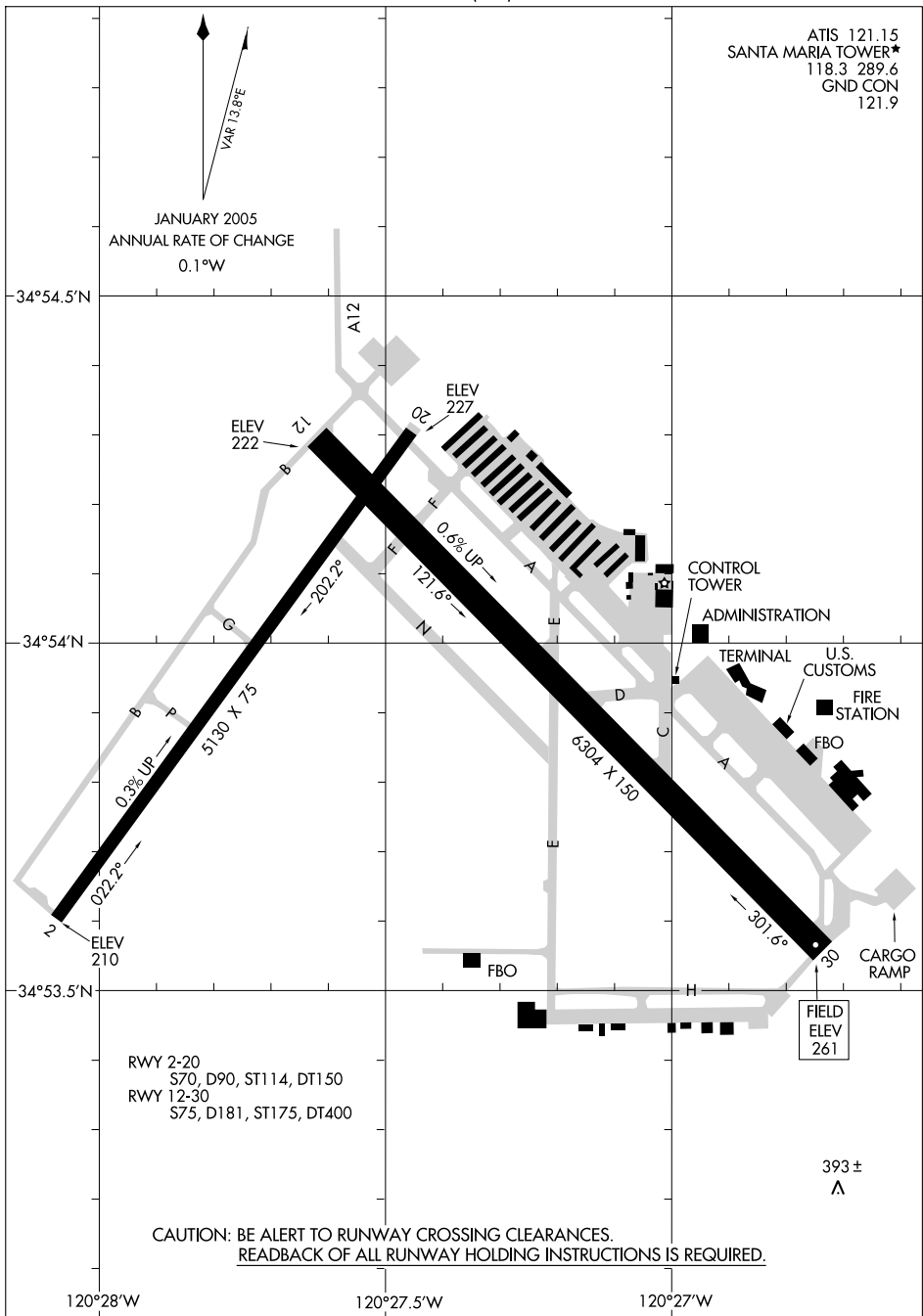
ATIS 132.65	SANTA BARBARA APP CON 120.55 321.4 (151°-329°) 125.4 291.1 (330°-150°)	SANTA BARBARA TOWER★ 119.7 (CTAF) 242.4	GND CON 121.7	CLNC DEL 132.9	UNICOM 122.95
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AIRPORT DIAGRAM

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)
AL-379 (FAA) SANTA MARIA, CALIFORNIA

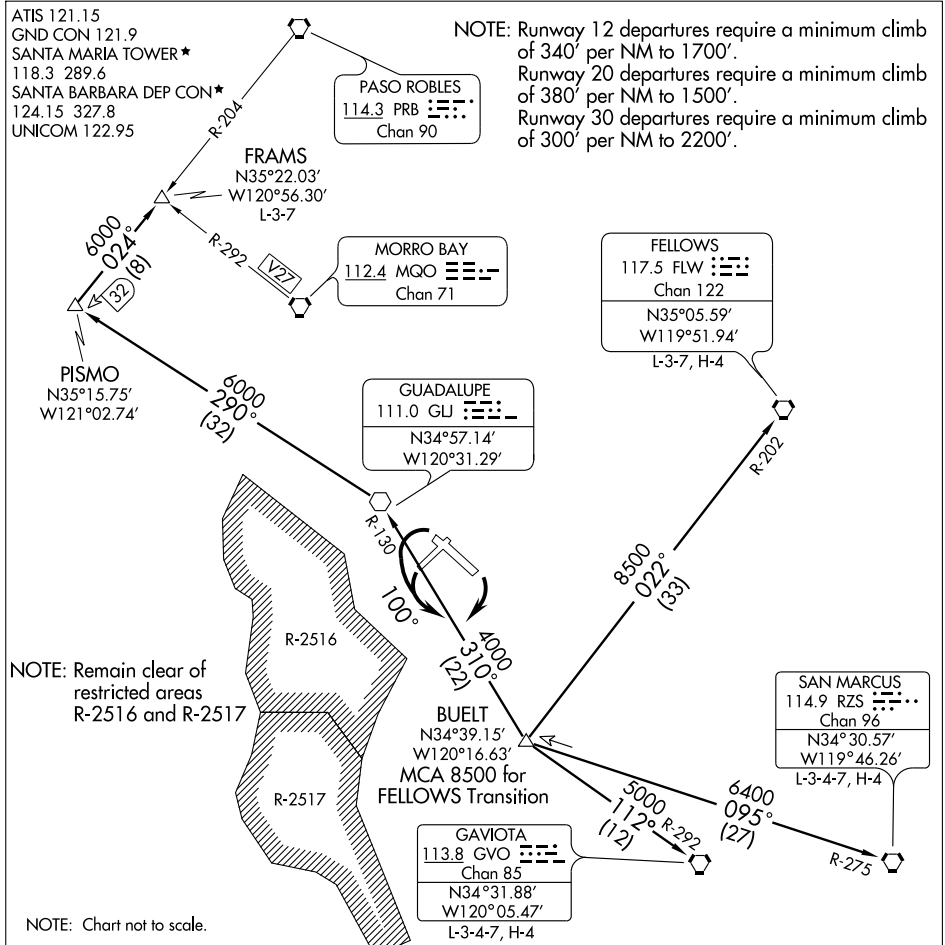


SW-3, 14 JAN 2010 to 11 FEB 2010

BUFLT ONE DEPARTURE

SL-379 (FAA)

SANTA MARIA, CALIFORNIA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept and proceed via GLJ R-130 to BUFLT INT, thence via (assigned route) or (transition).

TAKE-OFF RUNWAYS 20 and 30: Climb left turn via heading 100° to intercept and proceed via GLJ R-130 to BUFLT INT, thence via (assigned route) or (transition).

FELLOWS TRANSITION (BUFLT1.FLW): From over BUFLT INT via FLW R-202 to FLW VORTAC.

FRAMS TRANSITION (BUFLT1.FRAMS): From over BUFLT INT via GLJ R-130 to GLJ VOR, thence via GLJ R-290 to PISMO INT, thence via PRB R-204 to FRAMS INT.

GAVIOTA TRANSITION (BUFLT1.GVO): From over BUFLT INT via GVO R-292 to GVO VORTAC.

SAN MARCUS TRANSITION (BUFLT1.RZS): From over BUFLT INT via RZS R-275 to RZS VORTAC.

LOC/DME I-SMX 108.9 Chgn 26	APP CRS 120°	Rwy Idg 6304 TDZE 240 Apt Elev 261
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ILS or LOC RWY 12
SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

T * RVR 1800 authorized with the use of FD or AP or
A HUD to DA.

MALSR

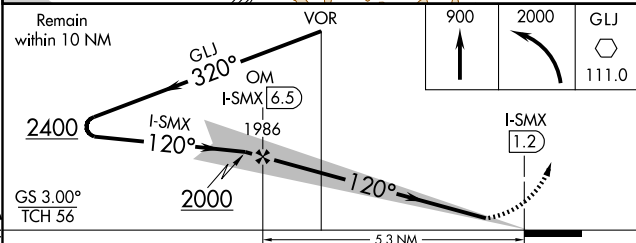
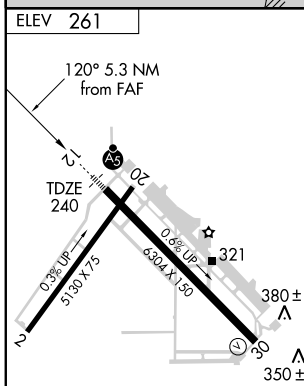
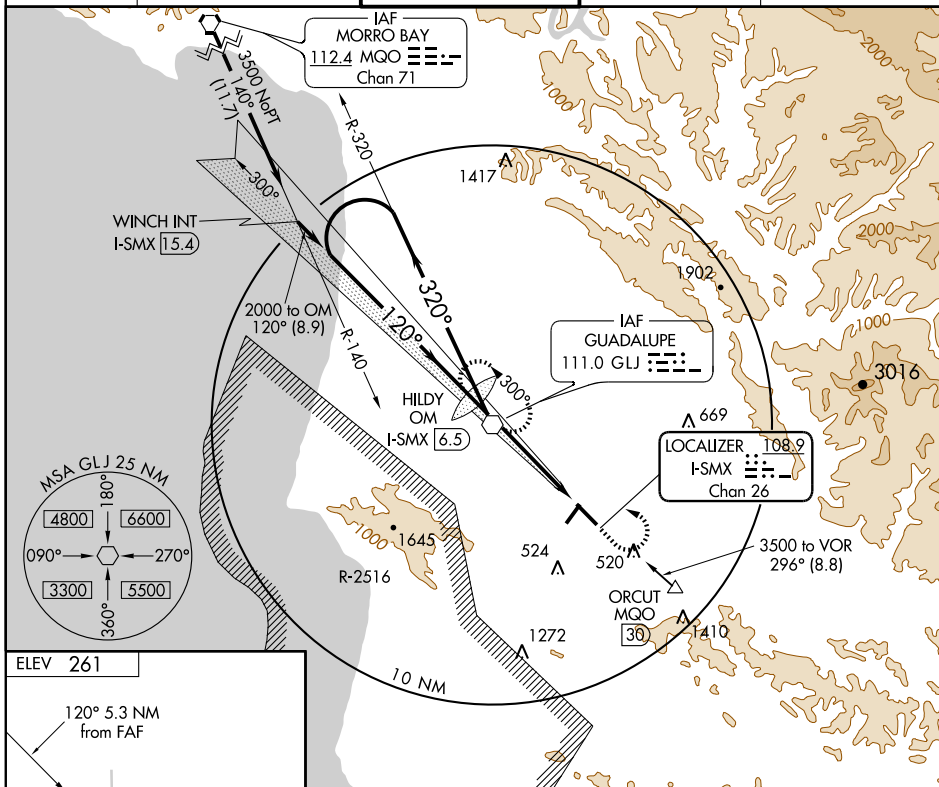
MISSED APPROACH: Climb to 900, then climbing left turn to 2000 direct GLJ VOR and hold.

ATIS
121.15

SANTA BARBARA APP CON★
124.15 327.8

SANTA MARIA TOWER★
118.3 (CTAF) **L** 289.6

GND CON
121.9

UNICOM
122.95

HIRL Rwy 12-30						CATEGORY	A	B	C	D
						S-ILS 12	*440/24			
FAF to MAP 5.3 NM						S-LOC 12	680/24	440 (500-½)	680/40 440 (500-¾)	680/50 440 (500-1)
Knots	60	90	120	150	180	CIRCLING	820-1	840-1	860-1½	1320-3
Min:Sec	5:18	3:32	2:39	2:07	1:46		559 (600-1)	579 (600-1)	599 (600-½)	1059 (1100-3)

LOC/DME

I-SMX

108.9

Chan 26

APP CRS

300°

Rwy Idg

TDZE

N/A

Apt Elev

261

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

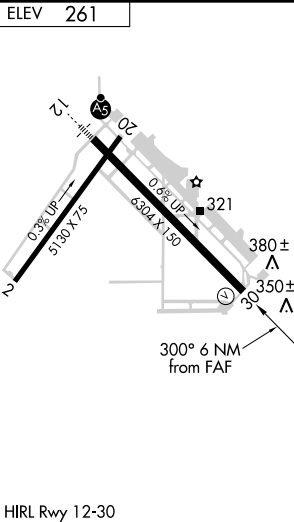
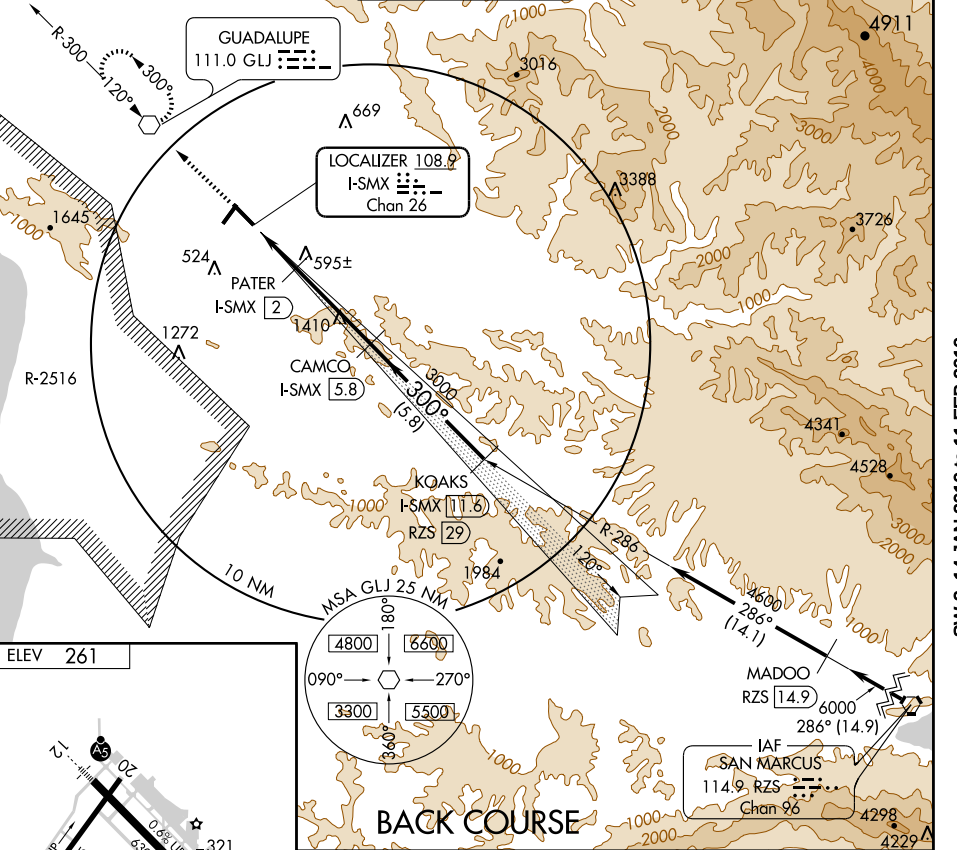
LOC/DME BC-A

⚠

⚠

MISSED APPROACH: Climb to 2000 direct GLJ VOR and hold.

ATIS 121.15	SANTA BARBARA APP CON★ 124.15 327.8	SANTA MARIA TOWER★ 118.3(CTAF) 289.6	GND CON 121.9	UNICOM 122.95
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BACK COURSE

2000

GLJ

111.0

Use I-SMX DME when on LOC course.

PATER

I-SMX 2

I-SMX 0.5

CAMCO

I-SMX 5.8

KOAKS

I-SMX 11.6/RZS 29

1720

3000

4600

Disregard glide slope indications

Procedure Turn NA

0.7

1.5

3.8 NM

5.8 NM

CATEGORY	A	B	C	D
CIRCLING	1100-1 839 (900-1)	1100-1¼ 839 (900-1¼)	1100-2½ 839 (900-2½)	1320-3 1059 (1100-3)

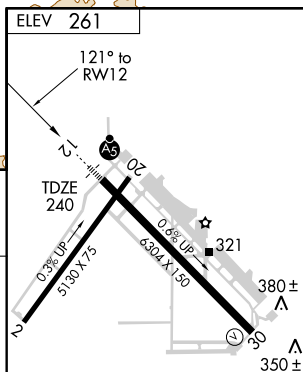
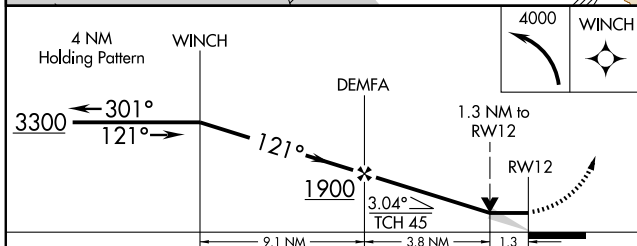
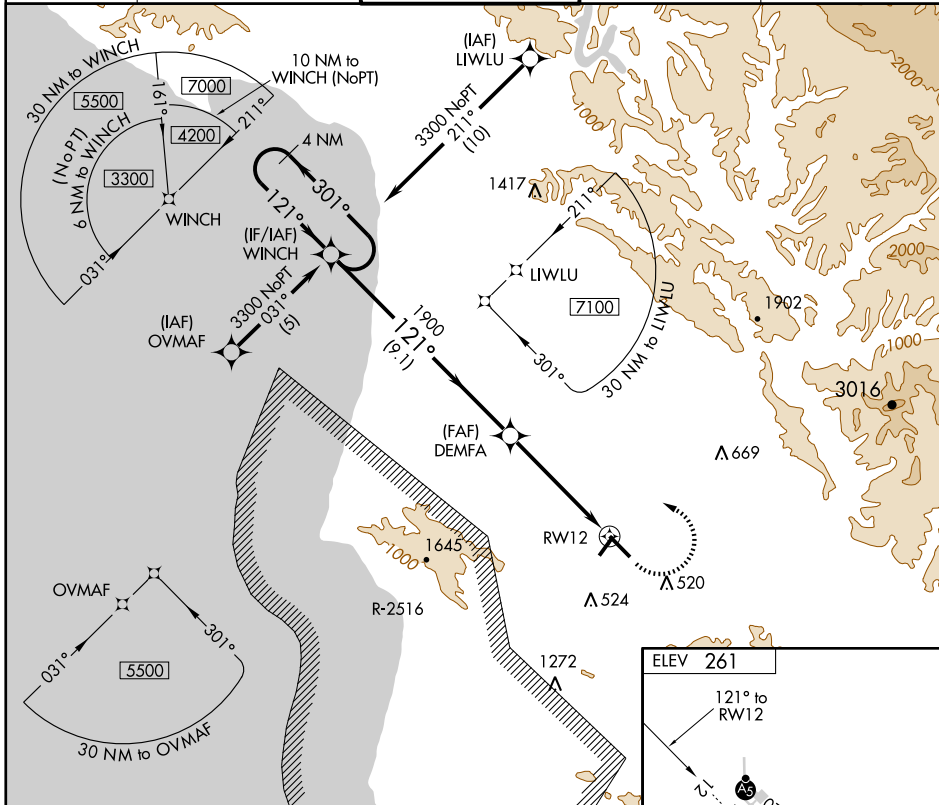
SW-3, 14 JAN 2010 to 11 FEB 2010

RNAV (GPS) RWY 12

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

T A	DME/DME RNP-0.3 NA.	MALSR 	MISSED APPROACH: Climbing left turn to 4000 direct WINCH WP and hold.
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ATIS 121.15	SANTA BARBARA APP CON ★ 124.15 327.8	SANTA MARIA TOWER ★ 118.3 (CTAF) 289.6	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	680/24 440 (500-½)	680/40 440 (500-¾)	680/50 440 (500-1)	680/50 440 (500-1)
CIRCLING	820-1 559 (600-1)	860-1 599 (600-1¾)	1320-3 1059 (1100-3)	1320-3 1059 (1100-3)

HIRL Rwy 12-30

AL-379 (FAA)

APP CRS	Rwy Idg	6304
316°	TDZE	261
	Apt Elev	261

RNAV (GPS) RWY 30

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

T DME/DME RNP-0.3 NA.
A Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Vandenburg altimeter setting and increase all MDA 60 feet.

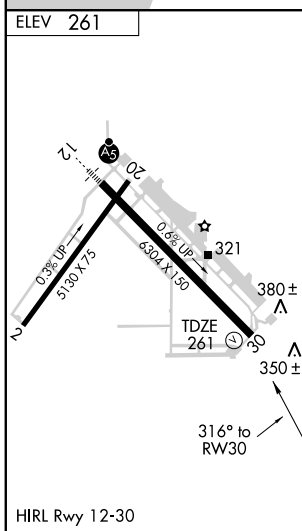
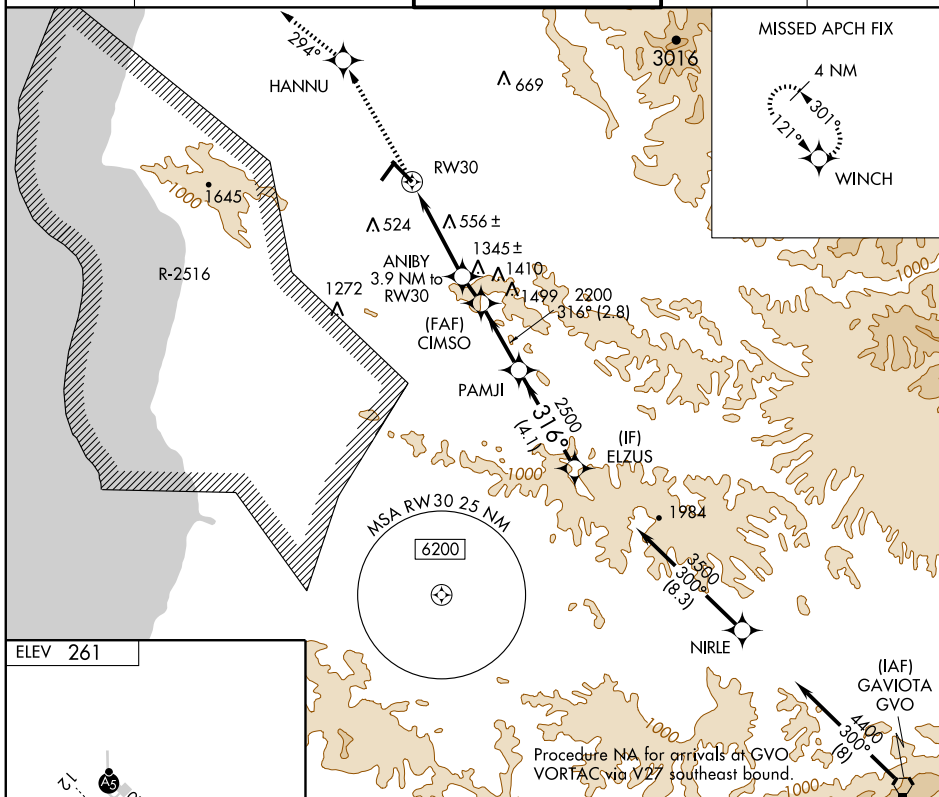
MISSED APPROACH: Climb to 4000 direct HANNU and via track 294° to WINCH and hold.

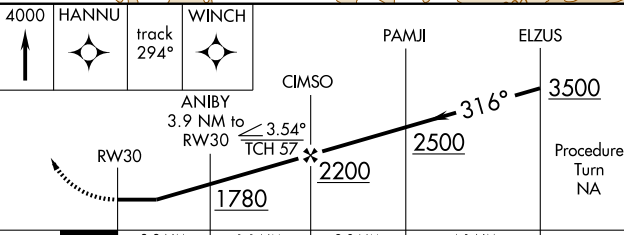
ATIS
121.15

SANTA BARBARA APP CON ★
124.15 327.8

SANTA MARIA TOWER★
118.3 (CTAF) **L** 289.6

GND CON
121.9

UNICOM
122.95

4000 ↑	HANNU ✧	track 294°	WINCH ✧						
				ANIBY 3.9 NM to RW30	≤ 3.54° TCH 57'	CIMSO	PAMJI	ELZUS	
				1780	2200	2500	3500	Procedure Turn NA	
				3.9 NM	1.1 NM	2.8 NM	4.1 NM		
CATEGORY	A		B		C		D		
LNAV MDA	1600-1¼ 1339 (1400-1¼)		1600-1½ 1339 (1400-1½)		1600-3 1339 (1400-3)		NA		
CIRCLING	1600-1¼ 1339 (1400-1¼)		1600-1½ 1339 (1400-1½)		1600-3 1339 (1400-3)		NA		

SW-3. 14 JAN 2010 to 11 FEB 2010

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▲

MALSR

MISSED APPROACH: Climbing left turn to 2000 direct GLJ VOR and hold.

ATIS 121.15	SANTA BARBARA APP CON* 124.15 327.8	SANTA MARIA TOWER★ 118.3 (CTAF) 289.6	GND CON 121.9	UNICOM 122.95
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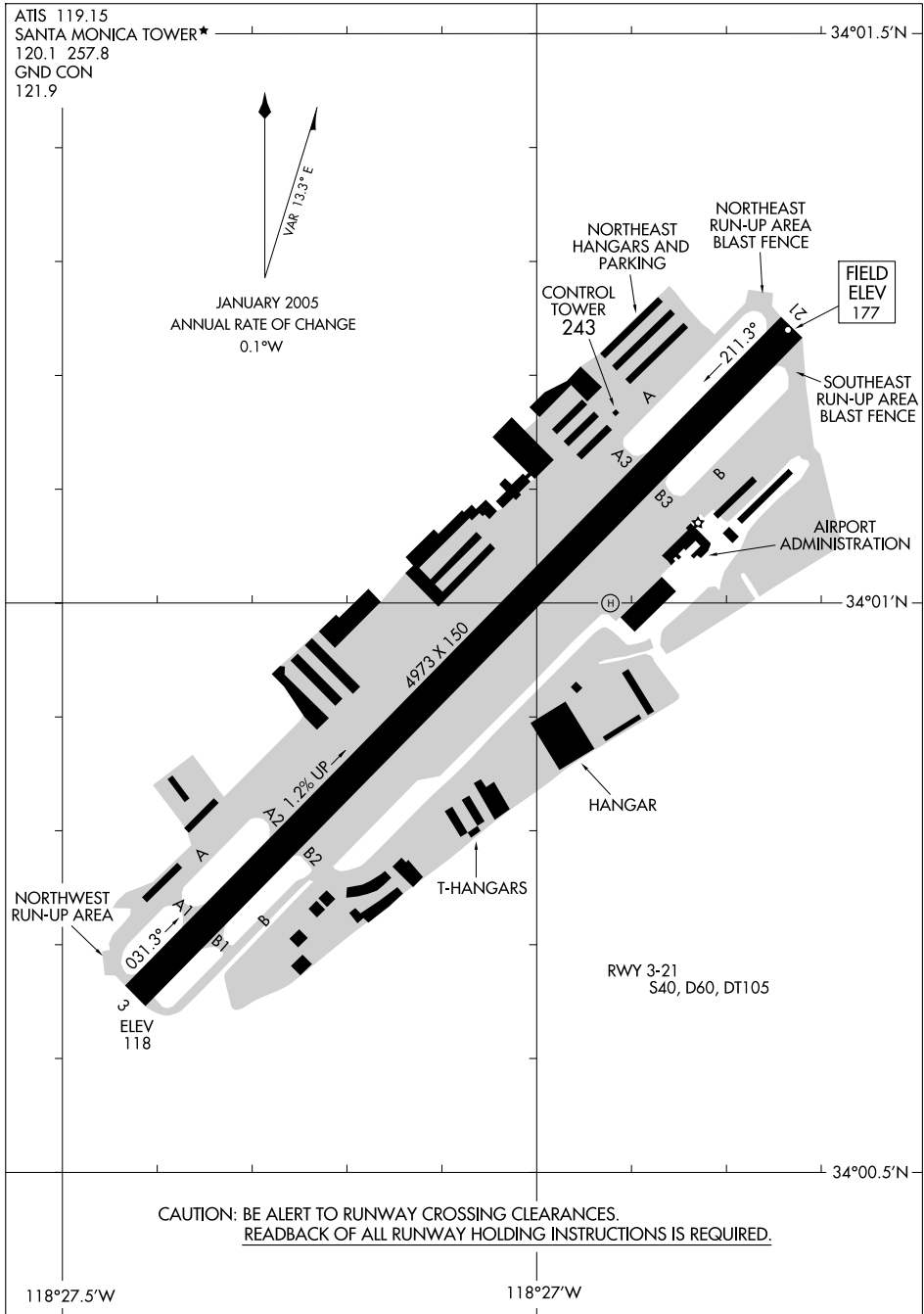
CATEGORY	A	B	C	D	HIRL Rwy 12-30					
S-12	680/24	440 (500-½)	680/40 440 (500-¾)	680/50 440 (500-1)	FAF to MAP 4.1 NM					
CIRCLING	820-1	559 (600-1)	860-1 ¾ 599 (600-1 ¾)	1320-3 1059 (1100-3)	Knots	60	90	120	150	180
					Min:Sec	4:06	2:44	2:03	1:38	1:22

SW-3, 14 JAN 2010 to 11 FEB 2010

AIRPORT DIAGRAM

AL-5023 (FAA)

SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA



45 → 319 Chan



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.FERN5): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.FERN5): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

FELLOWS TRANSITION (FLW.FERN5): From over FLW VORTAC via FLW R-116 and FIM R-297 to FIM VORTAC. Thence....

OHIGH TRANSITION (OHIGH.FERN5): From over OHIGH INT via FIM R-267 to FIM VORTAC. Thence....

....From over FIM VORTAC:

LANDING BOB HOPE: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect ILS RWY 8.

LANDING SANTA MONICA MUNI: Via FIM R-097 and VNY R-277 to VNY VOR/DME; then via VNY R-095 to DARTS INT. Expect VOR-A approach.

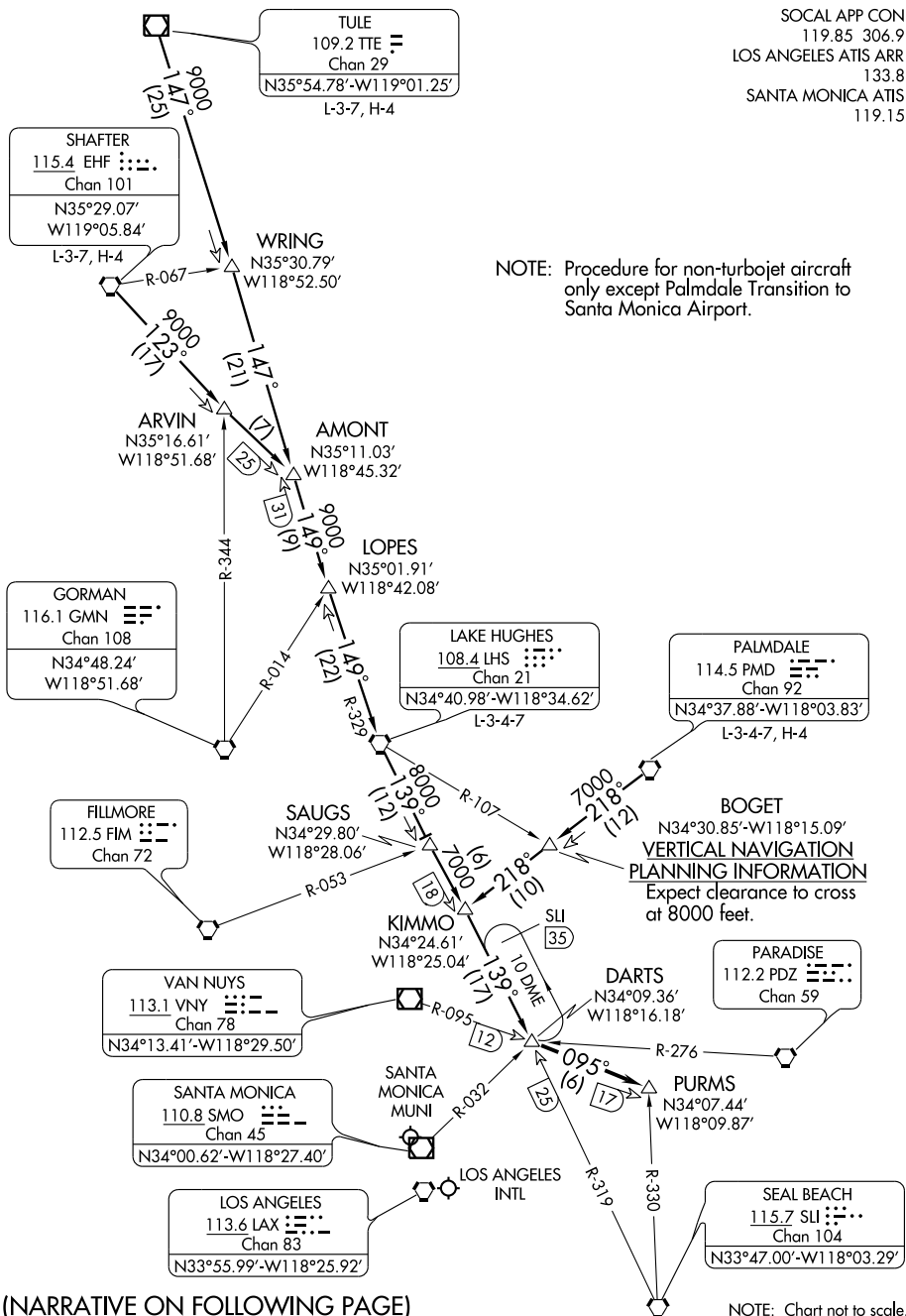
LANDING VAN NUYS RWY 16: Via FIM R-053 to UMBER INT, then via I-VNY localizer. Expect ILS RWY 16R.

LANDING VAN NUYS RWY 34: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect LDA-C; circle to land RWY 34L.

KIMMO TWO ARRIVAL

ST-237 (FAA)

LOS ANGELES, CALIFORNIA



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

LAKE HUGHES TRANSITION (LHS.KIMMO2): From over LHS VORTAC via LHS R-139 to DARTS INT. Thence....

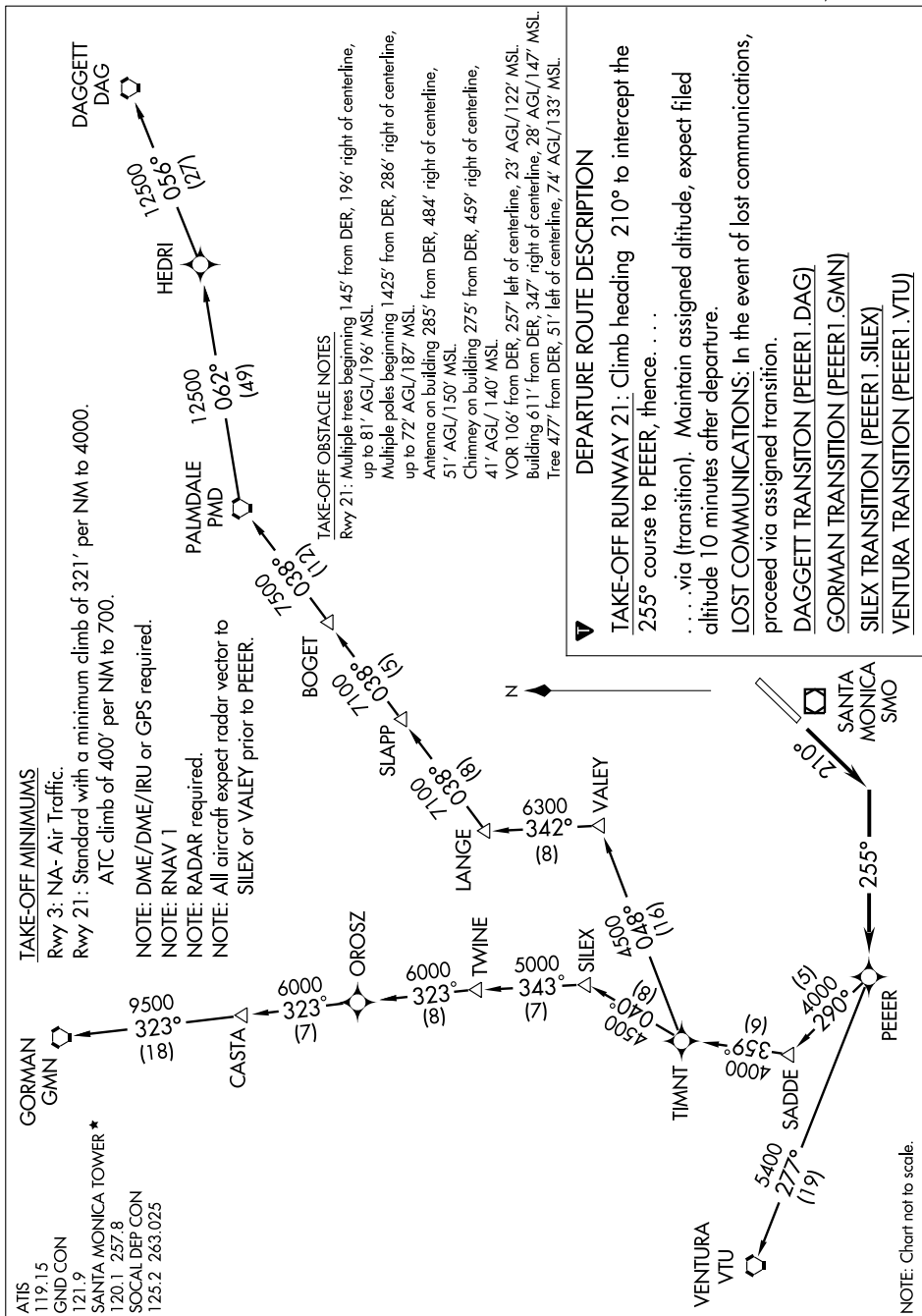
PALMDALE TRANSITION (PMD.KIMMO2): From over PMD VORTAC via PMD R-218 to KIMMO INT, then via LHS R-139 to DARTS INT. Thence....

SHAFTER TRANSITION (EHF.KIMMO2): From over EHF VORTAC via EHF R-123 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

TULE TRANSITION (TTE.KIMMO2): From over TTE VOR/DME via TTE R-147 and LHS R-329 to LHS VORTAC, then via LHS R-139 to DARTS INT. Thence....

....LANDING LOS ANGELES INTL: From over DARTS INT via VNY R-095 to PURMS INT. Expect radar vectors to final approach course.

....LANDING SANTA MONICA MUNI: From over DARTS INT expect radar vectors to final approach course.



ATIS
119.15
GND CON
121.9
SANTA MONICA TOWER ★
120.1 257.8
SOCAL DEP CON
125.2 263.025

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1

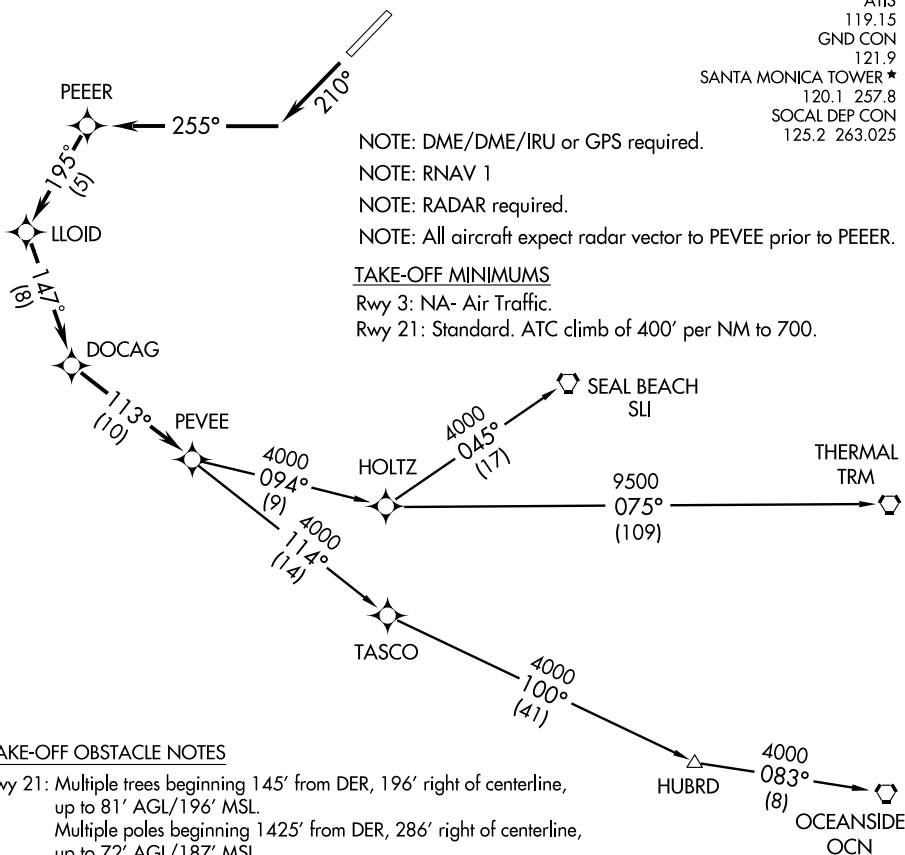
NOTE: RADAR required.

NOTE: All aircraft expect radar vector to PEVEE prior to PEEER.

TAKE-OFF MINIMUMS

Rwy 3: NA- Air Traffic.

Rwy 21: Standard. ATC climb of 400' per NM to 700.



SW-3, 14 JAN 2010 to 11 FEB 2010

TAKE-OFF OBSTACLE NOTES

Rwy 21: Multiple trees beginning 145' from DER, 196' right of centerline, up to 81' AGL/196' MSL.

Multiple poles beginning 1425' from DER, 286' right of centerline, up to 72' AGL/187' MSL.

Antenna on building 285' from DER, 484' right of centerline, 51' AGL/150' MSL.

Chimney on building 275' from DER, 459' right of centerline, 41' AGL/ 140' MSL.

VOR 106' from DER, 257' left of centerline, 23' AGL/122' MSL.

Building 611' from DER, 347' right of centerline, 28' AGL/147' MSL.

Tree 477' from DER, 51' left of centerline, 74' AGL/133' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTIONTAKE-OFF RUNWAY 21: Climb heading 210° to intercept the 255° course to PEEER, then via depicted route to PEVEE, thence. . . .

. . . via (transition). Maintain assigned altitude, expect altitude 10 minutes after departure.

LOST COMMUNICATIONS: In the event of lost communications, proceed via assigned transition.OCEANSIDE TRANSITION (PEVEE1.OCN)SEAL BEACH TRANSITION (PEVEE1.SLI)THERMAL TRANSITION (PEVEE1.TRM)

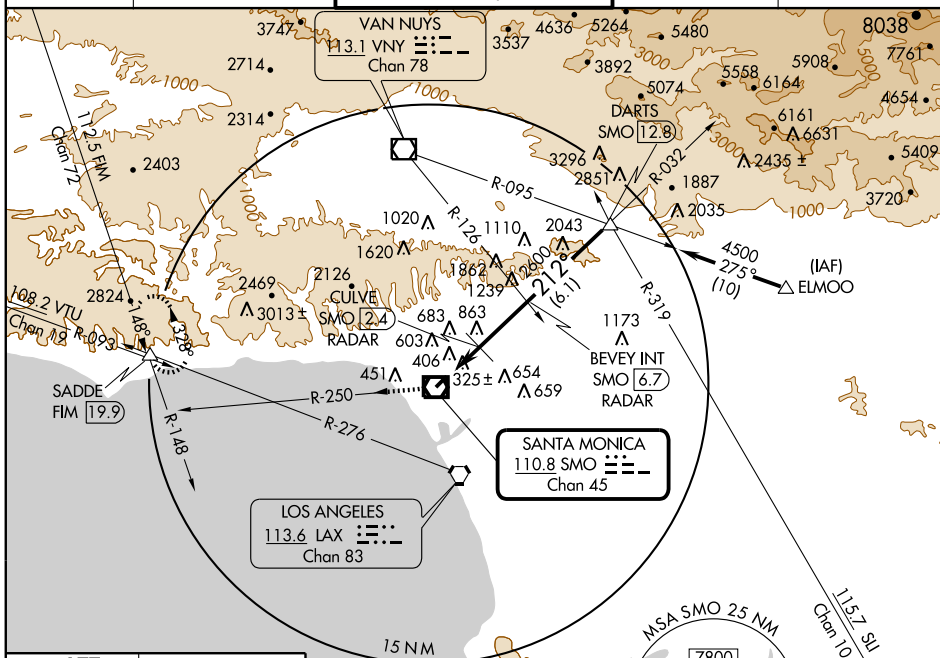
VOR/DME SMO 110.8 Chgn 45	APP CRS 212°	Rwy Idg N/A TDZE N/A Apt Elev 177
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VOR or GPS-A
SANTA MONICA MUNI (SMO)

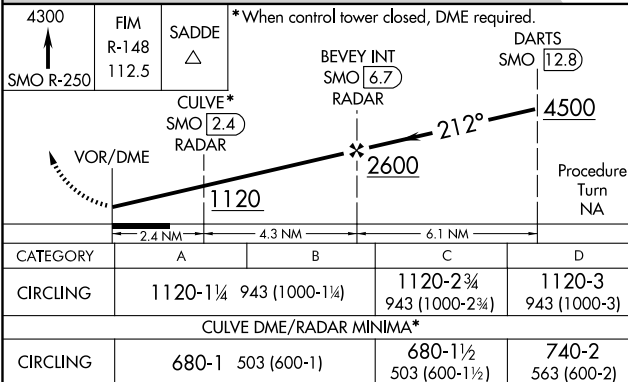
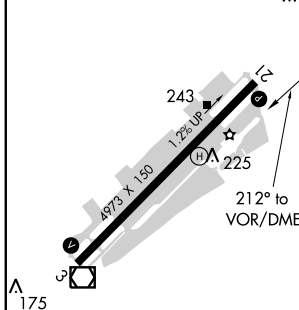
T
A Circling not authorized Northwest of Rwy 3-21.

MISSED APPROACH: Climb to 4300 via SMO R-250 and FIM R-148 to SADDE Int and hold, continue climb-in-hold to 4300.

ATIS	SOCAL APP CON	SANTA MONICA TOWER★	GND CON	UNICOM
119.15	128.5 235.975	120.1 (CTAF) 0 257.8	121.9	122.95



ELEV 177	211±A
----------	-------



D

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

FREES SIX DEPARTURE

SANTA ROSA/ CHARLES M. SCHULZ-SONOMA COUNTY (STS)
SL-696 (FAA) SANTA ROSA, CALIFORNIA

GND CON

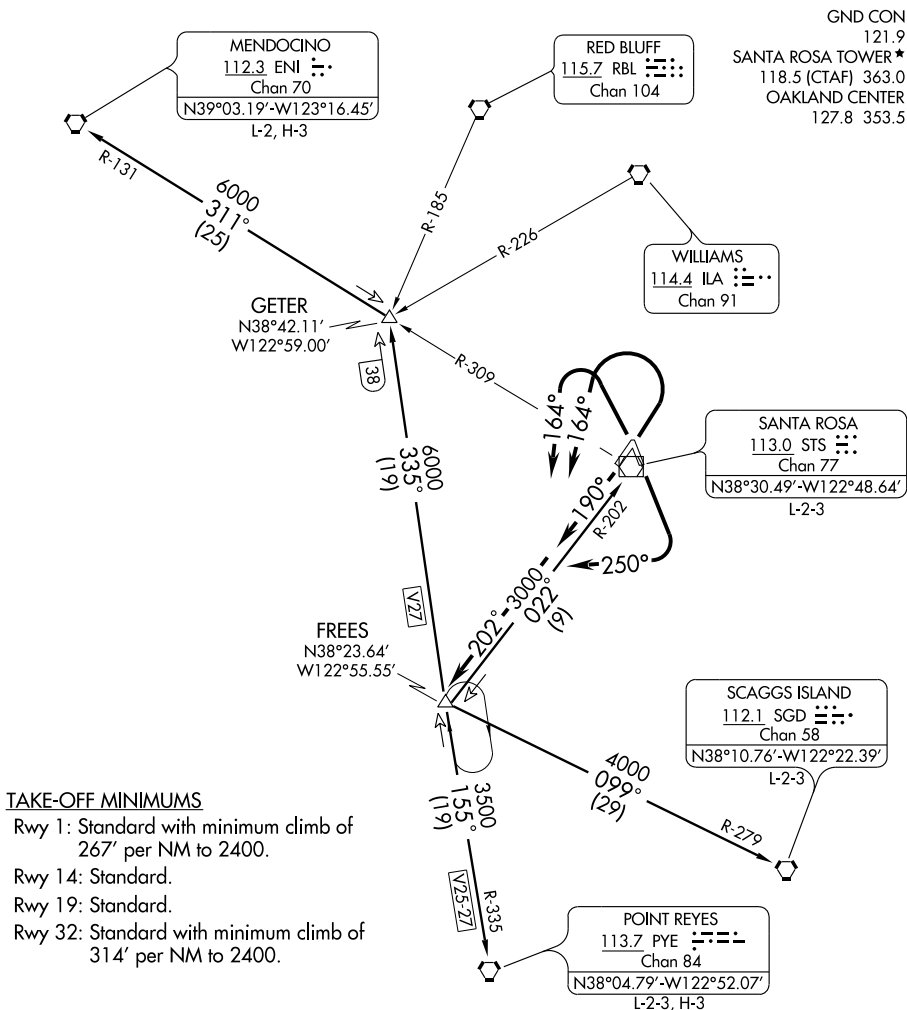
121.9

SANTA ROSA TOWER ★

118.5 (CTAF) 363.0

OAKLAND CENTER

127.8 353.5

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 267' per NM to 2400.

Rwy 14: Standard.

Rwy 19: Standard.

Rwy 32: Standard with minimum climb of 314' per NM to 2400.

TAKE-OFF OBSTACLE NOTES

Rwy 1: Tree 739' from DER, 525' left of centerline, 40' AGL/141' MSL.

Rwy 14: Multiple trees beginning 321' from DER, 421' left of centerline, up to 73' AGL/172' MSL.
Tree 2113' from DER, 721' right of centerline, 77' AGL/176' MSL.

Rwy 19: Posts 39' from DER, 259' right of centerline, 7' AGL/126' MSL.

Multiple trees beginning 1482' from DER, 461' right of centerline, up to 100' AGL/253' MSL.

Multiple trees beginning 1666' from DER, 58' left of centerline, up to 55' AGL/257' MSL.

Rwy 32: Windsock 39' from DER, 341' left of centerline, 25' AGL/133' MSL.

Multiple trees beginning 2419' from DER, 167' left of centerline, up to 50' AGL/216' MSL.

Multiple trees beginning 810' from DER, 87' right of centerline, up to 50' AGL/205' MSL.

DEPARTURE ROUTE DESCRIPTION



TAKE-OFF RUNWAYS 1 and 32: Turn left heading 164°. Thence....

TAKE-OFF RUNWAY 14: Turn right heading 250°. Thence....

TAKE-OFF RUNWAY 19: Climb on heading 190°. Thence....

....Intercept and climb via STS R-202 to FREES INT, cross FREES INT at or above MEA for route of flight, or continue climb in FREES INT holding pattern to MEA for route of flight then via (transition) or (assigned route).

MENDOCINO TRANSITION (FREES6.ENI): From over FREES INT via PYE R-335 and ENI R-131 to ENI VORTAC.

POINT REYES TRANSITION (FREES6.PYE): From over FREES INT via PYE R-335 to PYE VORTAC.

SANTA ROSA TRANSITION (FREES6.STS): From over FREES INT via STS R-202 to STS VOR/DME.

SCAGGS ISLAND TRANSITION (FREES6.SGD): From over FREES INT via SGD R-279 to SGD VORTAC.

ILS or LOC RWY 32

MISSED APPROACH: Climb to 1020 then climbing left turn to 6000 via ENI VORTAC R-131 to CABEX/ENI 18 DME and hold, continue climb-in-hold to 6000.

This is a detailed instrument approach chart for Santa Rosa Island VORTAC (V25-27). The chart includes the following information:

- LOCATOR 109.3**: Frequency for the locator station.
- SANTA ROSA 113.0 STS Chan 77**: Tower frequency and channel.
- EYXUZ STS 1.2**: Unicom frequency and channel.
- MONES OM STS [5.8]**: Omni frequency and channel.
- EDOVE INT STS [9.8]**: Intercom frequency and channel.
- DACER INT SGD [15.5]**: DME frequency and channel.
- BURDE INT SAU [15.4] STS [26.2]**: DME frequency and channels.
- IAF SAUSALITO 116.2 SAU Chan 109**: Initial Approach Fix frequency and channel.
- IAF SCAGGS ISLAND 112.1 SGD Chan 58**: Intermediate Approach Fix frequency and channel.
- Procedure NA for arrivals at PYE VORTAC on V25-27 southeast bound.**
- POINT REYES 113.7 PYE Chan 84**: Frequency and channel for Point Reyes.
- CABEX ENI [18]**: Enroute frequency and channel.
- MISSIED APCH FIX**: Missed Approach Fix.
- ALTERNATE MISSED APCH FIX**: Alternate Missed Approach Fix.
- SCAGGS ISLAND SGD 112.1 Chan 58**: Frequency and channel for Scaggs Island.
- IAF SCAGGS ISLAND 112.1 SGD Chan 58**: Initial Approach Fix frequency and channel.
- IAF SAUSALITO 116.2 SAU Chan 109**: Initial Approach Fix frequency and channel.
- Procedure NA for arrivals at PYE VORTAC on V25-27 southeast bound.**
- Point Reyes 113.7 PYE Chan 84**
- Cabex Eni [18]**
- Missied Apch Fix**
- Alternate Missed Apch Fix**
- Scaggs Island SGD 112.1 Chan 58**
- Iaf Scaggs Island 112.1 SGD Chan 58**
- Iaf Sausalito 116.2 SAU Chan 109**

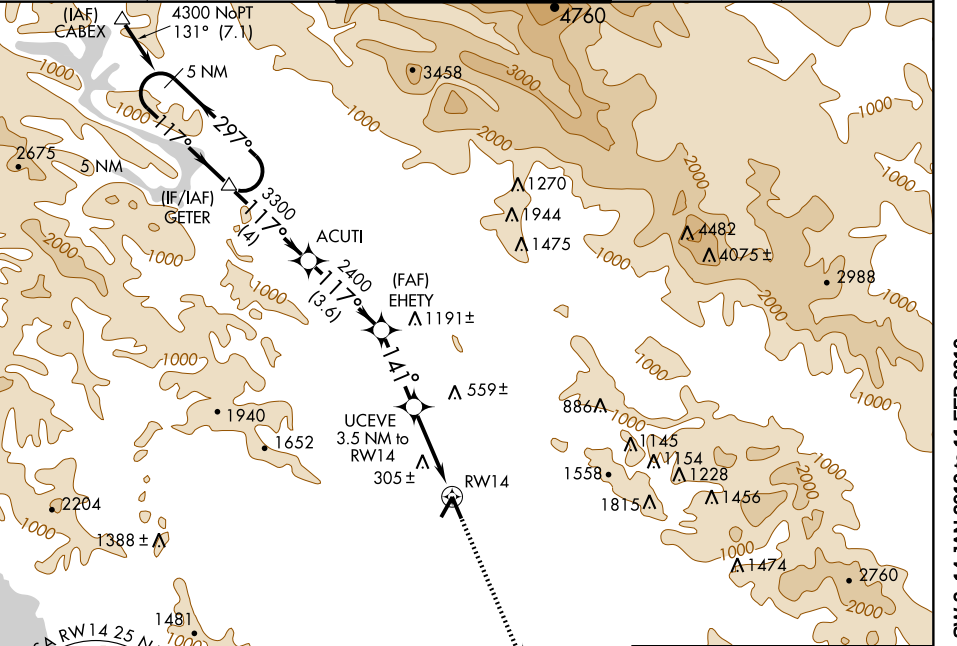
1020 ↑	6000 ENI R-131	CABEX △	LUSEE INT STS 12.2		One Minute Holding Pattern
CATEGORY	A	B	C	D	
S-ILS 32	*322/24			200 (200-½)	
S-LOC 32	540/24	418 (500-½)	540/40	418 (500-¾)	
CIRCLING	620-1 492 (500-1)	680-1 552 (600-1)	740-1¾ 612 (700-1¾)	740-2 612 (700-2)	

▼

DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5000 direct PIGPN and via 141° track to WDSTC and hold, continue climb-in-hold to 5000.

ATIS 120.55	OAKLAND CENTER 127.8 353.5	SANTA ROSA TOWER★ 118.5 (CTAF) 363.0	GND CON 121.9	UNICOM 122.95
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MSA RW14 25 NM
6000

MISSED APCH FIX
WDSTC
5 NM
141°
321°

5 NM Holding Pattern	VGSI and descent angles not coincident.	5000	PIGPN	141° track	WDSTC
GETER	ACUTI	EHEITY	UCEVE 3.5 NM to RW14		
4300	297° 117°	3300	2400	1360	RW14
4 NM		3.6 NM	3 NM	3.5 NM	

ELEV 128

179±

141° to RW14

146±

TDZE 121

0.3% Up

5004 x 100

5119 x 130

TWR 198

270±

32

157±

247±

CATEGORY	A	B	C	D
LNAV MDA	560-1	439 (500-1)	560-1¼ 439 (500-1¼)	560-1½ 439 (500-1½)
CIRCLING	620-1 492 (500-1)	680-1 552 (600-1)	740-1¾ 612 (700-1¾)	740-2 612 (700-2)

REIL Rwy 14
HIRL Rwy 14-32

SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS
CH **72611**
W32A

APP CRS
321°

Rwy Idg
TDZE
Apt Elev

5119
122
128

▼

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA.

MALSR

MISSED APPROACH: Climb to 6000 direct TUGUC and via 308° track to CABEX and hold, continue climb-in-hold to 6000.

ATIS 120.55	OAKLAND CENTER 127.8 353.5	SANTA ROSA TOWER★ 118.5 (CTAF) 363.0	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX

Procedure NA for arrival at PYE VORTAC via V301 southbound.

Procedure NA for arrival on SGD VORTAC airway radials 114 CW 297.

ELEV 128

REIL Rwy 14
HIRL Rwy 14-32

6000	TUGUC	308° track	CABEX	LUSEE	Procedure Turn NA
*LNAV only	*1.3 NM to RW32	PIGPN	321°	3000	GS 3.00° TCH 53
1.3 4.4 NM 6.1 NM					
CATEGORY	A	B	C	D	
LPV DA	455/40		333 (400-¾)		
LNAV/VNAV DA	556/50		434 (500-1)		
LNAV MDA	600/24	478 (500-½)	600/40 478 (500-¾)	600/50 478 (500-1)	
CIRCLING	620-1 492 (500-1)	680-1 552 (600-1)	740-1¾ 612 (700-1¾)	740-2 612 (700-2)	

SW-2, 14 JAN 2010 to 11 FEB 2010

SANTA ROSA SIX DEPARTURE

SL-696 (FAA)

SANTA ROSA, CALIFORNIA

GND CON

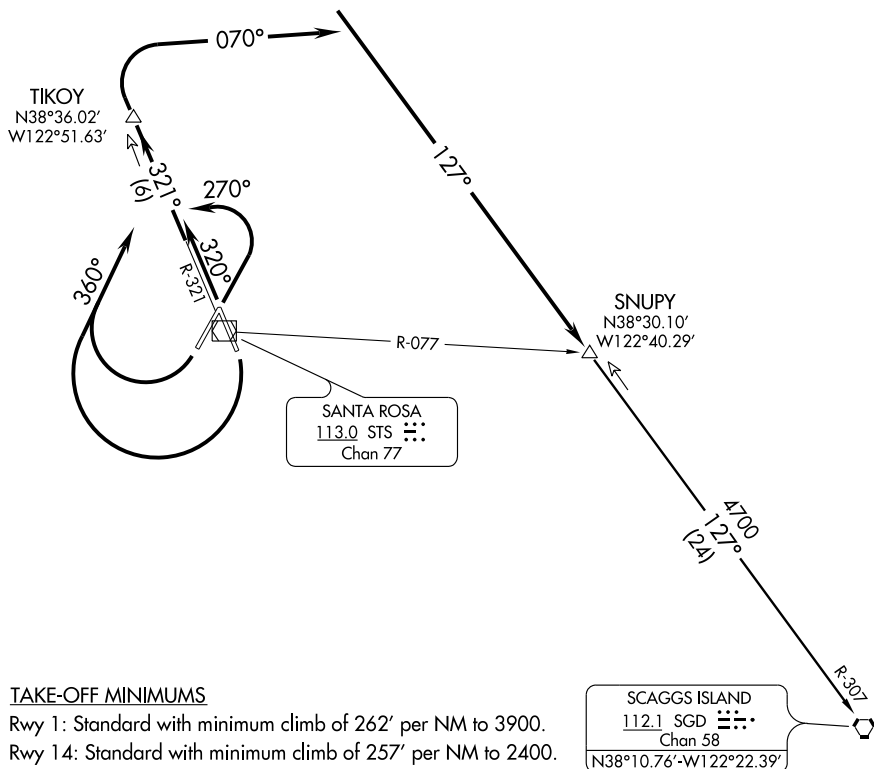
121.9

SANTA ROSA TOWER ★

118.5 (CTAF) 363.0

OAKLAND CENTER

127.8 353.5

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 262' per NM to 3900.

Rwy 14: Standard with minimum climb of 257' per NM to 2400.

Rwy 19: Standard with minimum climb of 288' per NM to 2800.

Rwy 32: Standard with minimum climb of 250' per NM to 2700.

TAKE-OFF OBSTACLE NOTES

Rwy 1: Tree 739' from DER, 525' left of centerline, 40' AGL/141' MSL.

Rwy 14: Multiple trees beginning 321' from DER, 421' left of centerline, up to 73' AGL/172' MSL.
Tree 2113' from DER, 721' right of centerline, 77' AGL/176' MSL.

Rwy 19: Posts 39' from DER, 259' right of centerline, 7' AGL/126' MSL.

Multiple trees beginning 1482' from DER, 461' right of centerline, up to 100' AGL/253' MSL.

Multiple trees beginning 1666' from DER, 58' left of centerline, up to 55' AGL/257' MSL.

Rwy 32: Windsock 39' from DER, 341' left of centerline, 25' AGL/133' MSL.

Multiple trees beginning 2419' from DER, 167' left of centerline, up to 50' AGL/216' MSL.

Multiple trees beginning 810' from DER, 87' right of centerline, up to 50' AGL/205' MSL.

NOTE: DME required.

NOTE: Chart not to scale.

(Continued on next page)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Turn left heading 270°. Thence....

TAKE-OFF RUNWAYS 14 and 19: Turn right heading 360°. Thence....

TAKE-OFF RUNWAY 32: Climb via heading 320°. Thence....

....Intercept and climb via STS R-321 to TIKOY INT/STS 6 DME, turn right via heading 070° to intercept and proceed via SGD R-307 to SNUPY INT/SGD 24 DME, then via (transition) or (assigned route).

SCAGGS ISLAND TRANSITION (STS6.SGD): From over SNUPY INT/SGD 24 DME via SGD R-307 to SGD VORTAC.

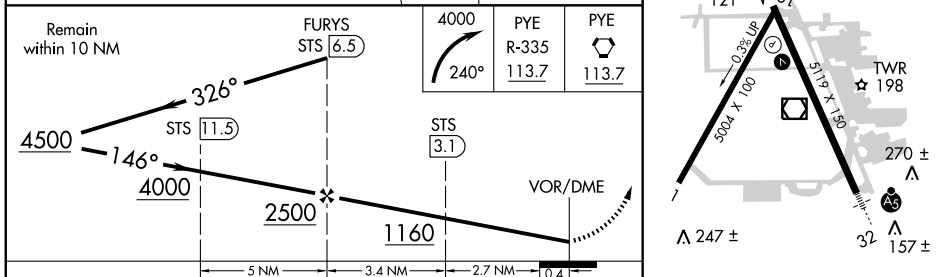
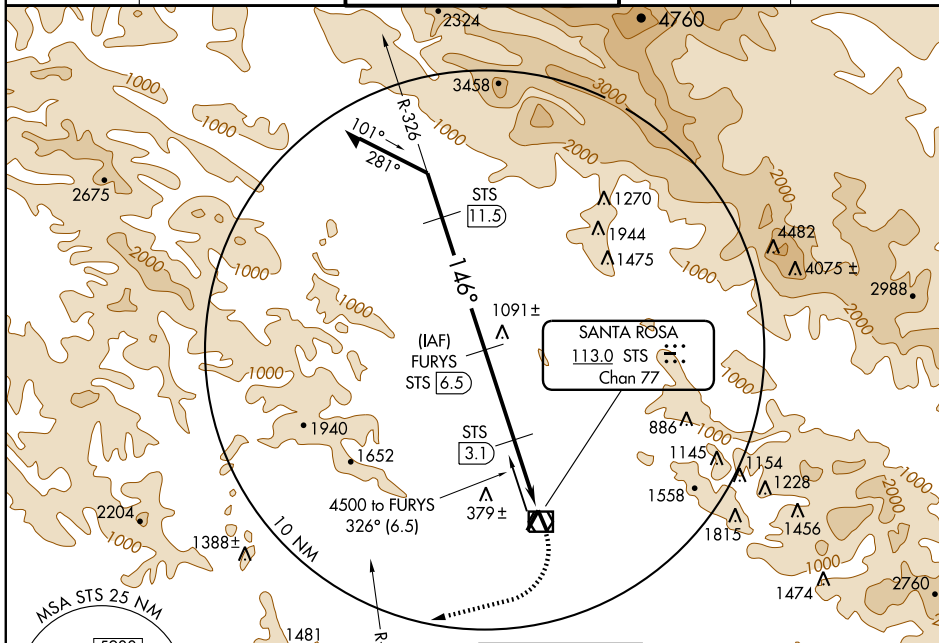
AL-696 (FAA)

VOR/DME STS <u>113.0</u> Chan 77	APP CRS 146°	Rwy Idg 5119 TDZE 121 Apt Elev 128
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VOR/DME RWY 14
SANTA ROSA/ CHARLES M. SCHULZ-SONOMA COUNTY (STS)

T	When local altimeter not received, procedure not authorized.	MISSED APPROACH: Climbing right turn to 4000 via heading 240° and PYE R-335 to PYE VORTAC.
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ATIS 120.55	OAKLAND CENTER 127.8 353.5	SANTA ROSA TOWER ★ 118.5 (CTAF) 0 363.0	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-14	640-1 519 (600-1)		640-1 ¹ / ₂ 519 (600-1 ¹ / ₂)	640-1 ³ / ₄ 519 (600-1 ³ / ₄)
CIRCLING	640-1 512 (600-1)	680-1 552 (600-1)	740-1 ³ / ₄ 612 (700-1 ³ / ₄)	740-2 612 (700-2)

REIL Rwy 14 ①
HIRL Rwy 14-32 ①

REIL Rwy 14 **L**
HIRL Rwy 14-32 **L**

SW-2. 14 JAN 2010 to 11 FEB 2010

VOR/DME STS <u>113.0</u> Chan 77	APP CRS 321°	Rwy Idg 5119 TDZE 119 Apt Elev 125
--	------------------------	---

SANTA ROSA/ CHARLES M. SCHULZ-SONOMA COUNTY (STS)

VOR RWY 32

T	S-32 Cat D DME minimums visibility increased to
A NA	RVR 6000 for inoperative MALS R. When local altimeter not received, procedure NA.

MALSR

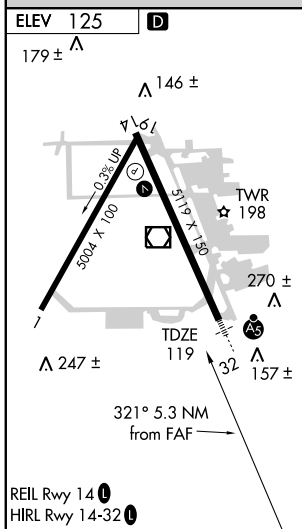
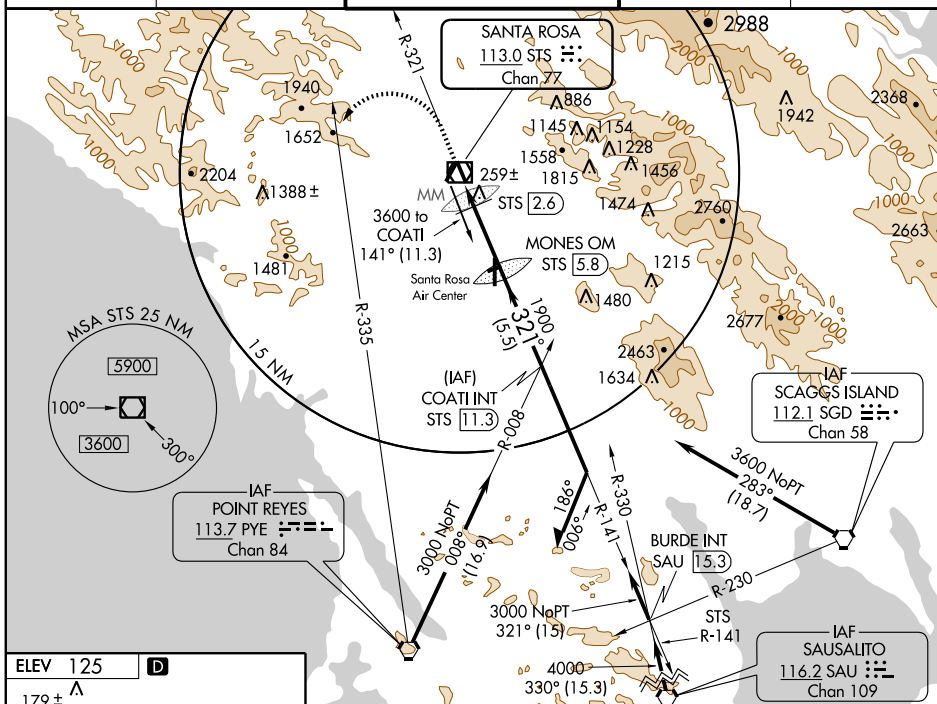
MISSED APPROACH: Climb to 1800 via STS R-321 then climbing left turn to 4000 via heading 240° and PYE R-335 to PYE VORTAC.

ATIS
120.55

OAKLAND CENTER
127.8 353.5

SANTA ROSA TOWER★
118.5 (CTAF) **L** 363.0

GND CO
121.9

UNICOM
122.95

1800 ↑ STS R-321	4000 ↖ 240°	PYE R-335 113.7	PYE  113.7	COAT INT STS 11.3	Remain within 10 NM
MONES OM STS 5.8 VOR/DME STS 2.6 321° 3000 3000 141° 0.5 2.1 3.2 NM 5.5 NM					
CATEGORY	A		B	C	D
S-32	700/24 581 (600-½)		700/50 581 (600-1)	700/60 581 (600-1¼)	
CIRCLING	700-1 575 (600-1)		740-1¾ 615 (700-1¾)	740-2 615 (700-2)	
DME MINIMUMS					
S-32	520/24 401 (400-½)		520/40 401 (400-¾)	520/50 401 (400-1)	
CIRCLING	580-1 455 (500-1)		680-1 555 (600-1)	740-2 615 (700-2)	

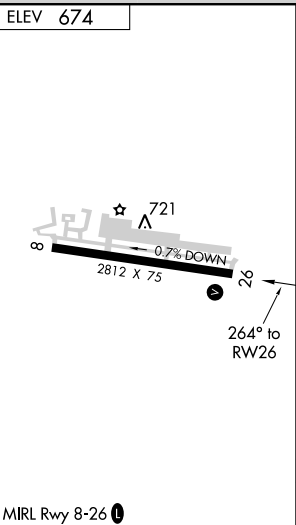
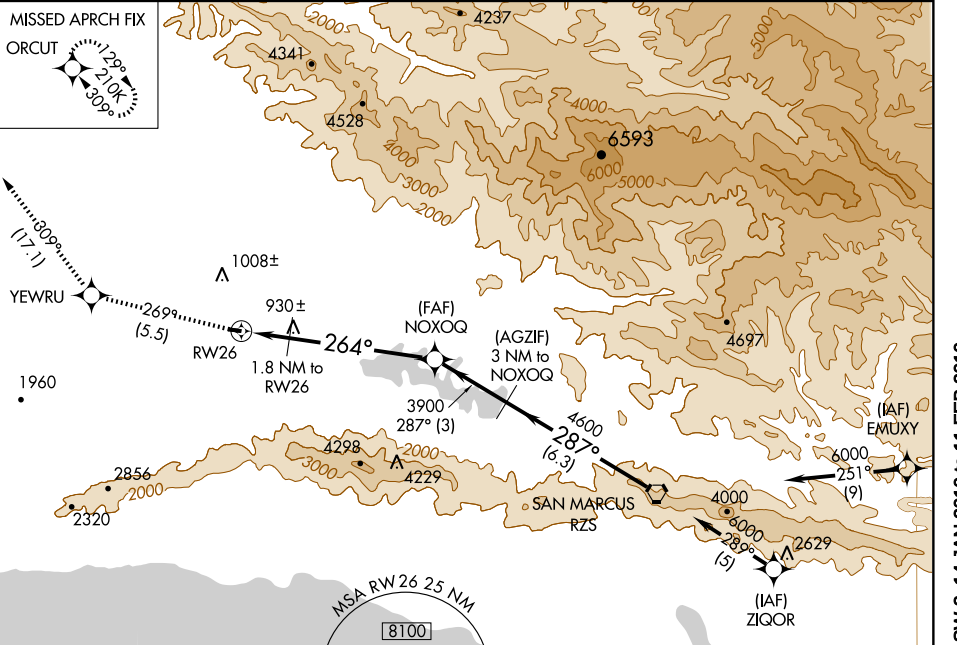
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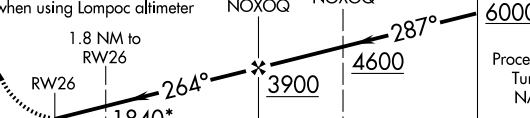
NA

Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting.

MISSED APPROACH: Climb to 5000 via 269° course to YEWRU WP, then via 309° course to ORCUT WP and hold.

AWOS-3 118.075	SANTA BARBARA APP CON* 124.15 327.8	UNICOM 122.8 (CTAF) 0
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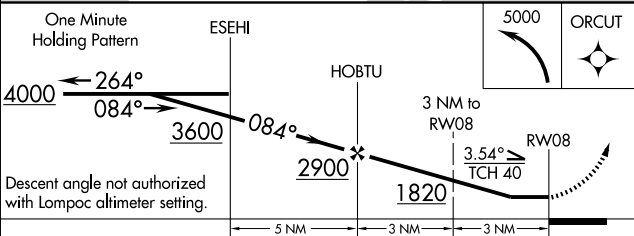
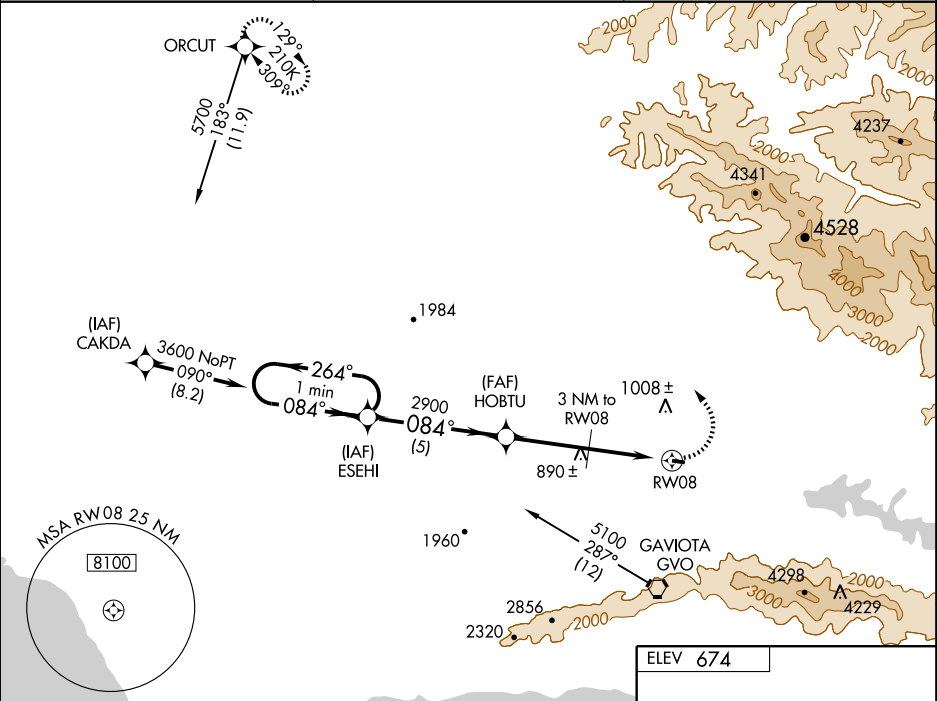
5000 ↑ 269° CRS	YEWRU 	309° CRS 	ORCUT 	VORTAC
*2360 when using Lompoc altimeter setting.				
				
CATEGORY	A	B	C	D
CIRCLING	1120-1 446 (500-1)	1160-1 486 (500-1)	NA	
LOMPOC ALTIMETER SETTING MINIMUMS				
CIRCLING	1640-1½ 966 (1000-1¼)	1680-1½ 1006 (1100-1½)	NA	

APP CRS	Rwy Idg	2804
084°	TDZE	671
	Apt Elev	674

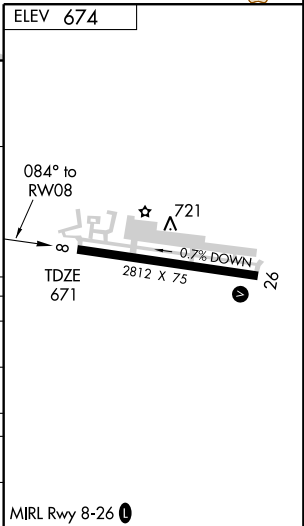
Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting.

MISSED APPROACH: Climbing left turn to 5000 direct ORCUT WP and hold.

AWOS-3 118.075	SANTA BARBARA APP CON ★ 124.15 327.8	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-8	1060-1	389 (400-1)		NA
CIRCLING	1120-1 446 (500-1)	1160-1 486 (500-1)		NA
LOMPOC ALTIMETER SETTING MINIMUMS				
S-8	1600-1¼	929 (1000-1¼)		NA
CIRCLING	1640-1¼ 966 (1000-1¼)	1680-1½ 1006 (1100-1½)		NA



VORTAC RZS 114.9 Chan 96	APP CRS 097°	Rwy Idg TDZE Apt Elev	N/A N/A 674
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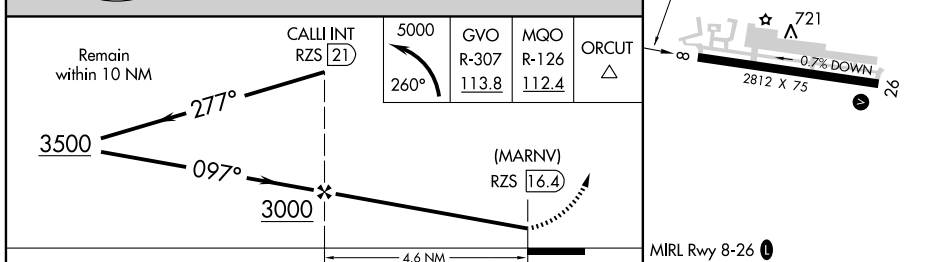
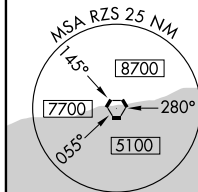
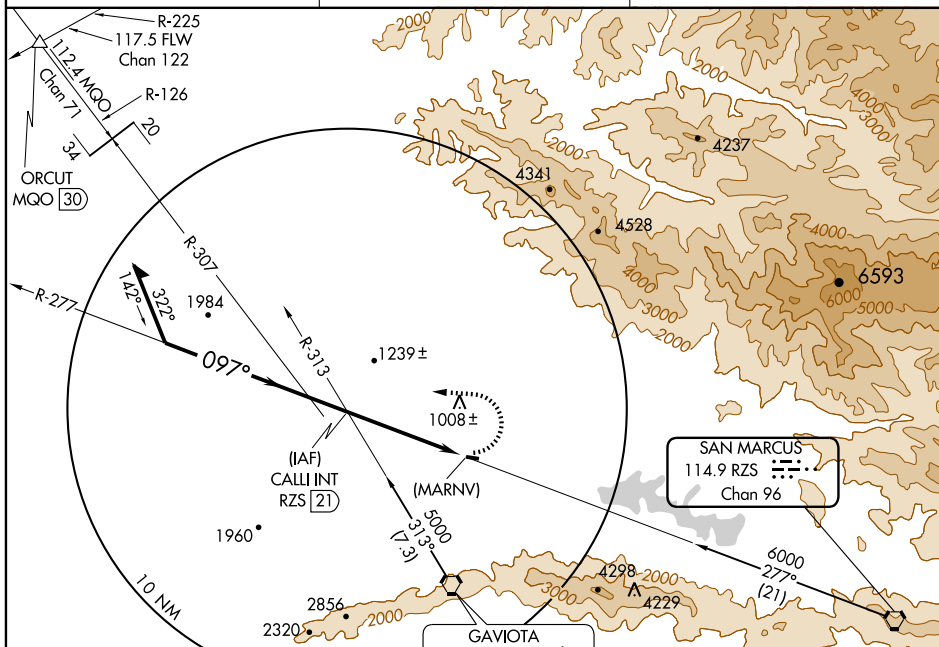
VOR or GPS-B
SANTA YNEZ (IZA)

T Obtain local altimeter setting on CTAF, when not received, except for operators with approved weather reporting service, use Lompoc altimeter setting and increase all MDAs 540 feet.

MISSED APPROACH: Climbing left turn to 5000 via heading 260° and GVO R-307 and MQO R-126 to ORCUT Int.

AWOS-3
118.075

SANTA BARBARA APP CON★
124.15 327.8

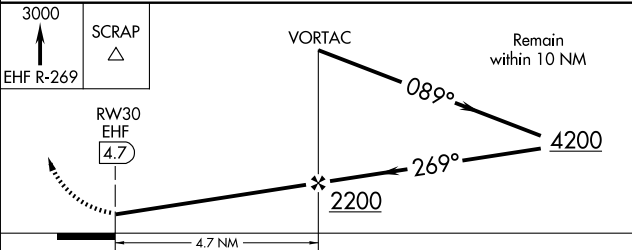
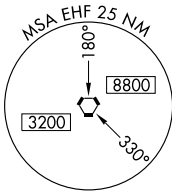
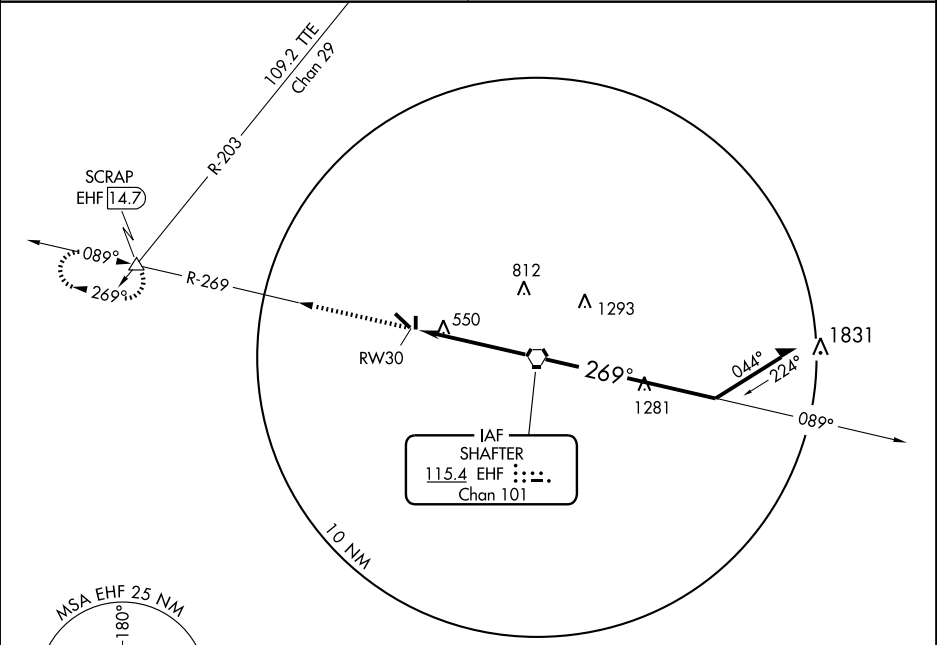
UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D	FAF to MAP 4.6 NM					
CIRCLING	1880-1¼ 1206 (1300-1¼)	1880-1½ 1206 (1300-1½)	NA		Knots	60	90	120	150	180
					Min:Sec	4:36	3:04	2:18	1:50	1:32

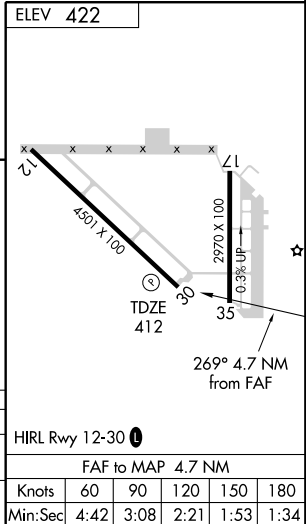
VORTAC EHF	APP CRS	Rwy Idg	4501
115.4	269°	TDZE	412
Chan 101		Apt Elev	422

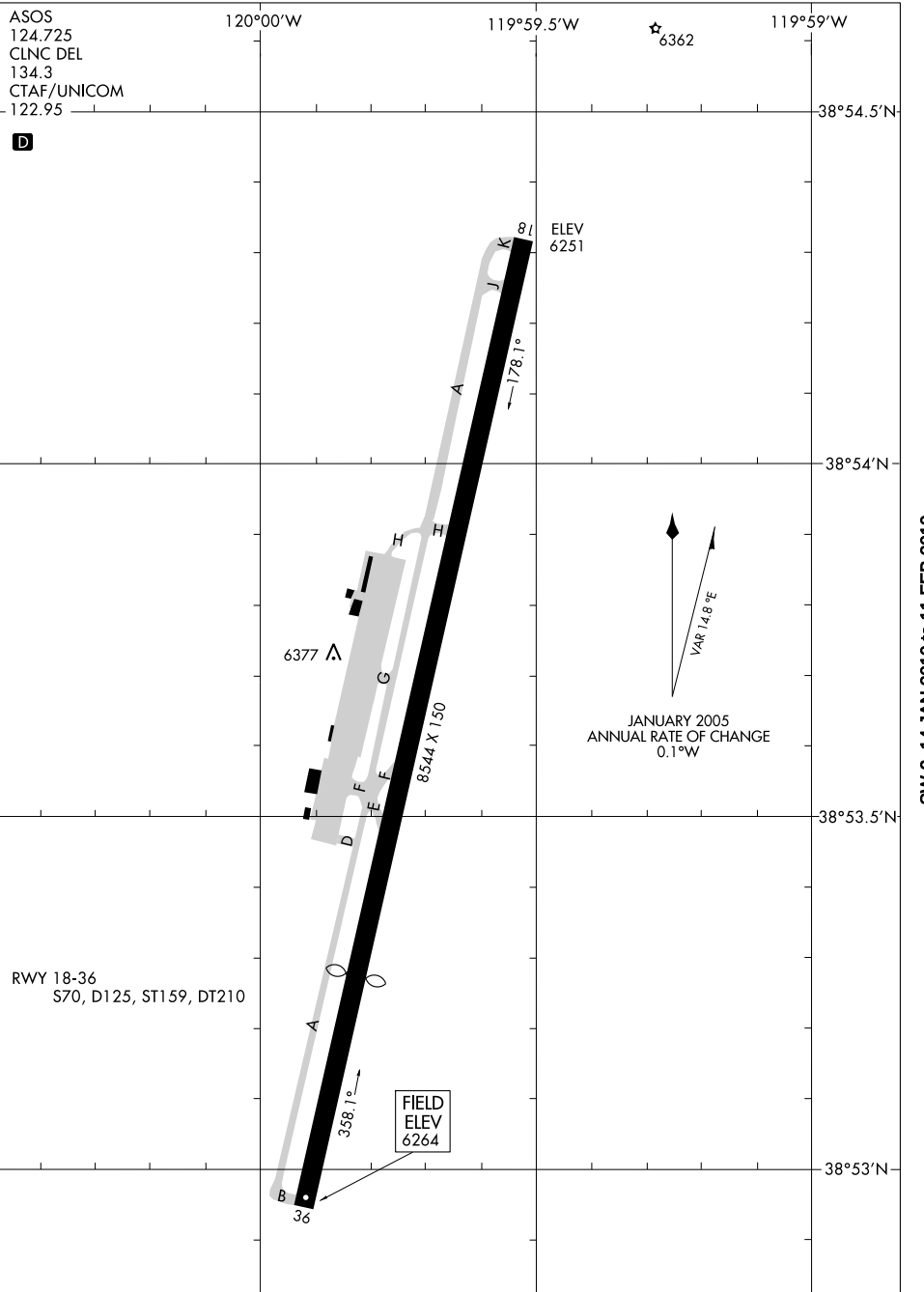
VOR or GPS RWY 30
SHAFTER-MINTER FIELD (MIT')

NA Use Bakersfield, CA altimeter setting.	MISSED APPROACH: Climb to 3000 via EHF R-269 to SCRAP INT/EHF 14.7 DME and hold.
BAKERSFIELD APP CON 126.45 270.3	CTAF 122.9 0



CATEGORY	A	B	C	D
S-30	860-1 448 (500-1)		860-1 ¼ 448 (500-1 ¼)	NA
CIRCLING	860-1 438 (500-1)	880-1 458 (500-1)	880-1 ½ 458 (500-1 ½)	NA





SW-2 14 JAN 2010 to 11 FEB 2010

APP CRS 172°	Rwy Idg TDZE Apt Elev	7017 6254 6264
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GPS RWY 18

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

T	
A NA	Circling not authorized at night.

MALSF

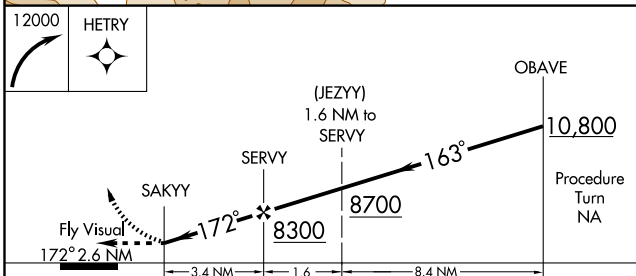
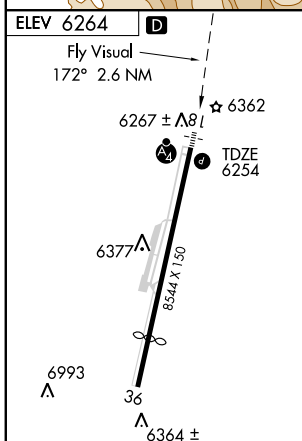
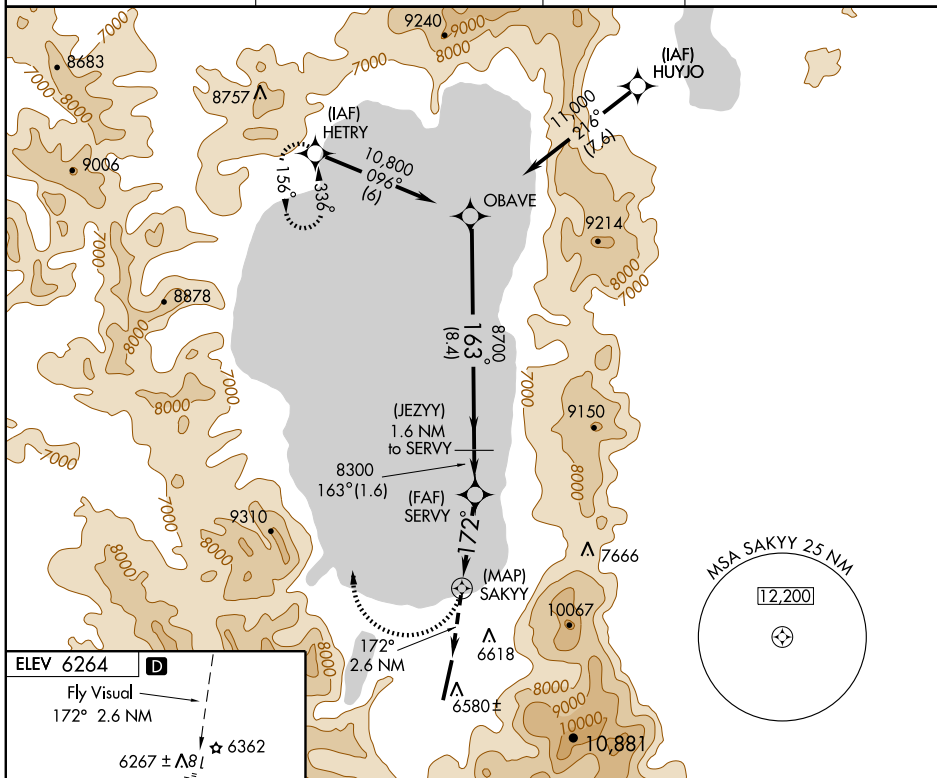


MISSED APPROACH: Climbing right turn to 12,000 direct HETRY WP and hold.

ASOS
124.725

OAKLAND CENTER
127.95 316.1

CLNC DEL
134.3

UNICOM
122.95 (CTAF) **L**

CATEGORY	A	B	C	D
S-18	7160-3 906 (900-3)			8700-3 2446 (2500-3)
CIRCLING	7420-3 1156 (1200-3)	7520-3 1256 (1300-3)	7560-3 1296 (1300-3)	8700-3 2436 (2500-3)

REIL Rwy 36
MIRL Rwy 18-36 **L**

LOC/DME I-TVL 108.9 Chan 26	APP CRS 171°	Rwy Idg 7017 TDZE 6254 Apt Elev 6264
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LDA/DME-1 RWY 18
SOUTH LAKE TAHOE/LAKE TAHOE (TVL)

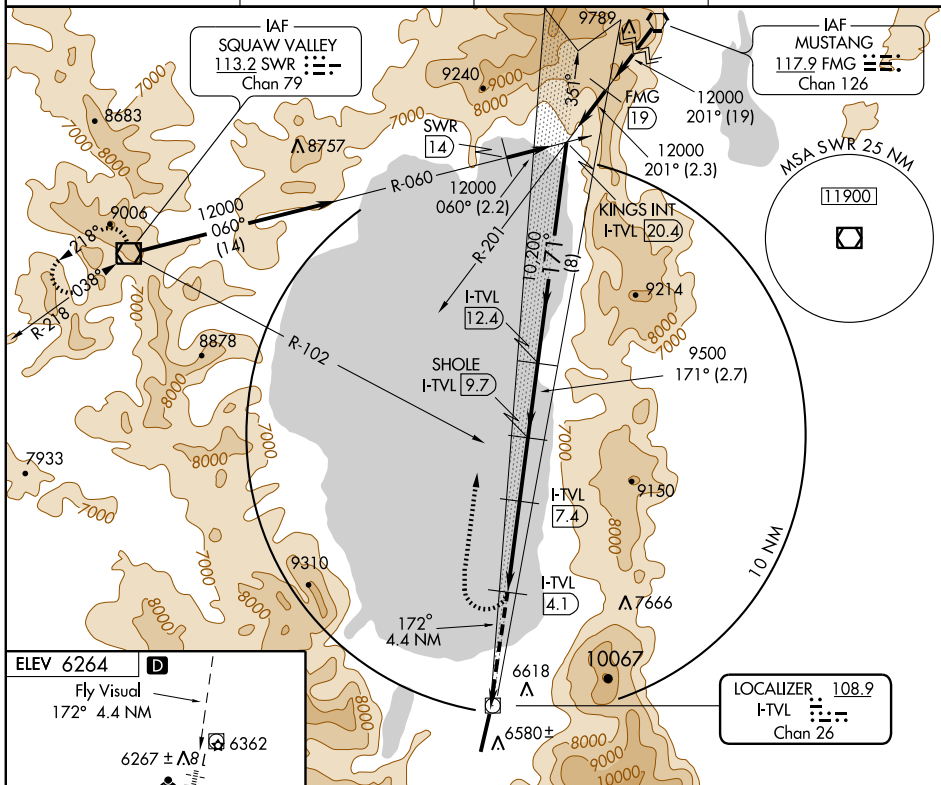
T
A NA Circling not authorized at night.

MALSF

MISSED APPROACH: Climbing right turn to 11000
via heading 348° and SWR R-102 to SWR VOR/DME
and hold

ASOS
124.725

OAKLAND CENTER
127.95 316.1

CLNC DEL
134.3UNICOM
122.95 (CTAF) **L**

ELEV 6264

Fly Visual
172° 4.4 NM

6267 ± 81

TDZE
6254

6377

8544 X 150

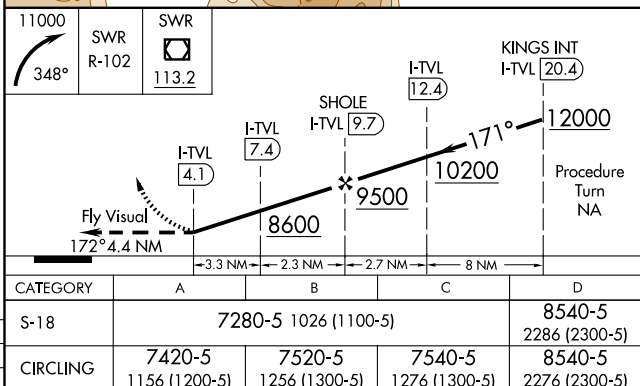
6362

6993

36

6364 ±

Knots	60	90	120	150	180
Min:Sec					



LOC/DME I-TVL 108.9 Chan 26	APP CRS 171°	Rwy Idg 7017 TDZE 6254 Apt Elev 6264
---	------------------------	---

LDA/DME-2 RWY 18
SOUTH LAKE TAHOE/LAKE TAHOE (TVL)

T			
A	NA		Circling not authorized at night.

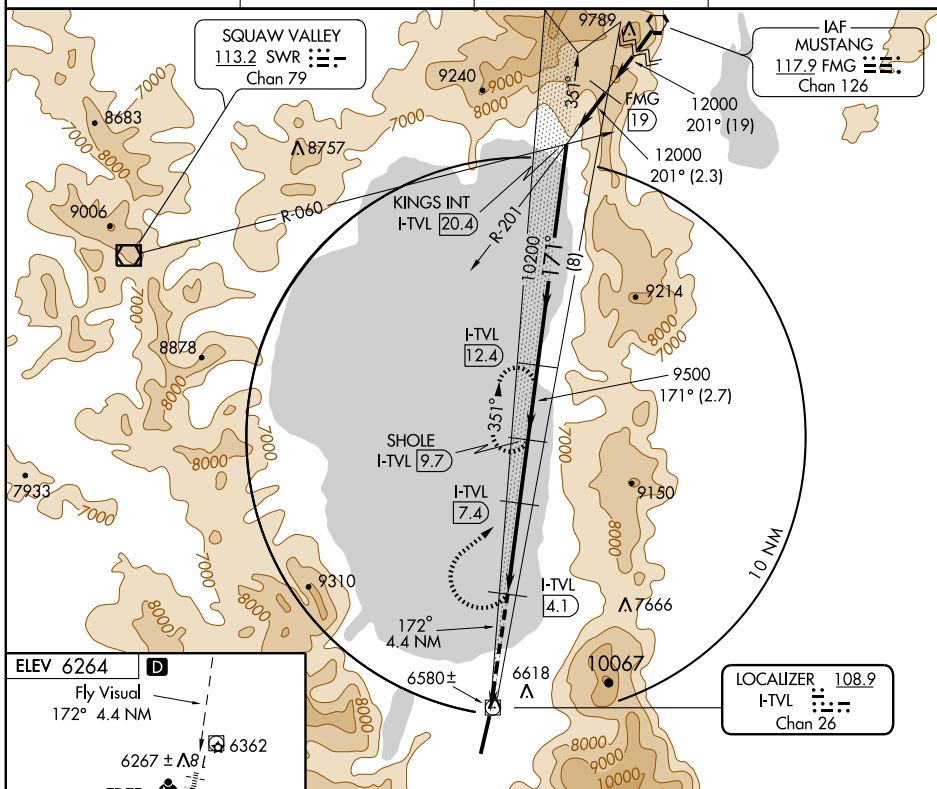
MAISE



MISSED APPROACH: Climbing right turn to 12000 via heading 035° and I-TVL north course to SHOLE/9.7 DME and hold.

ASOS
124.725

OAKLAND CENTER
127.95 316.1

CLNC DEL
134.3UNICOM
122.95 (CTAF) **L**

ELEV 6264

Fly Visual
172° 4.4 NM

6267 ± 181

TDZE
6254

6377

8544 X 130

6364 ±

6362

36

6993

REIL Rwy 36

MIRL Rwy 18-36

Knots	60	90	120	150
Min:Sec				

	I-TVL N crs SHOLE I-TVL 9.7	I-TVL 4.1 I-TVL 7.4 SHOLE I-TVL 9.7 I-TVL 12.4 I-TVL 20.4 12000 Procedure Turn NA		
CATEGORY	A	B	C	D
S-18	8380-5	2126 (2200-5)		8540-5 2286 (2300-5)
CIRCLING	8380-5	2116 (2200-5)		8540-5 2276 (2300-5)

RICHY FIVE DEPARTURE

SL-5416 (FAA)

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

SOUTH LAKE TAHOE, CALIFORNIA

MINIMUM CROSSING ALTITUDE: at RICHY INT
Northwest-bound direct SWR VOR/DME 8300'

NOTE: This SID requires a minimum climb rate of
400 feet per NM to 10000'.

OAKLAND CENTER

127.95 316.1

CLNC DEL

134.3

CTAF 122.95

MUSTANG
117.9 FMG 
Chan 126

SQUAW VALLEY
113.2 SWR 
Chan 79
N39°10.83'-W120°16.18'

11000

RICHY
N38°59.87'
W120°01.15'
12000

SE and SW bound

297°
(16)

36

8300

15000
192°
(25)

13000
117°
(21)

15000
117°
(14)

13000
117°
(4)

15000
117°
(7)

15000
117°
(48)

HANGTOWN
115.5 HNW 
Chan 102

R-086

SPOOK
N38°37.95'
W120°15.86'
L-3-9, H-3

LINDEN

114.8 LIN 
Chan 95

R-029

MARRI
N38°45.79'
W119°42.01'
13000
L-9

GENNE
N38°42.91'
W119°38.11'
L-9, H-3

TILTS
N38°38.08'
W119°31.61'
L-9, H-3

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Turn left heading 330°. Intercept SWR R-117 at or above 8300', continue climb northwest bound on SWR R-117 to SWR VOR/DME. Cross SWR VOR/DME at or above 11000'. Aircraft cleared via a transition, reverse course to the left after crossing the SWR VOR/DME, and proceed to RICHY INT via SWR R-117. Cross RICHY INT at 12000' southeast and southwest bound, thence (via transition).

GENNE TRANSITION (RICHY5.GENNE): From over RICHY INT via SWR R-117 to GENNE INT. Cross MARRI INT at 13000'. Expect further clearance to filed altitude after MARRI INT.

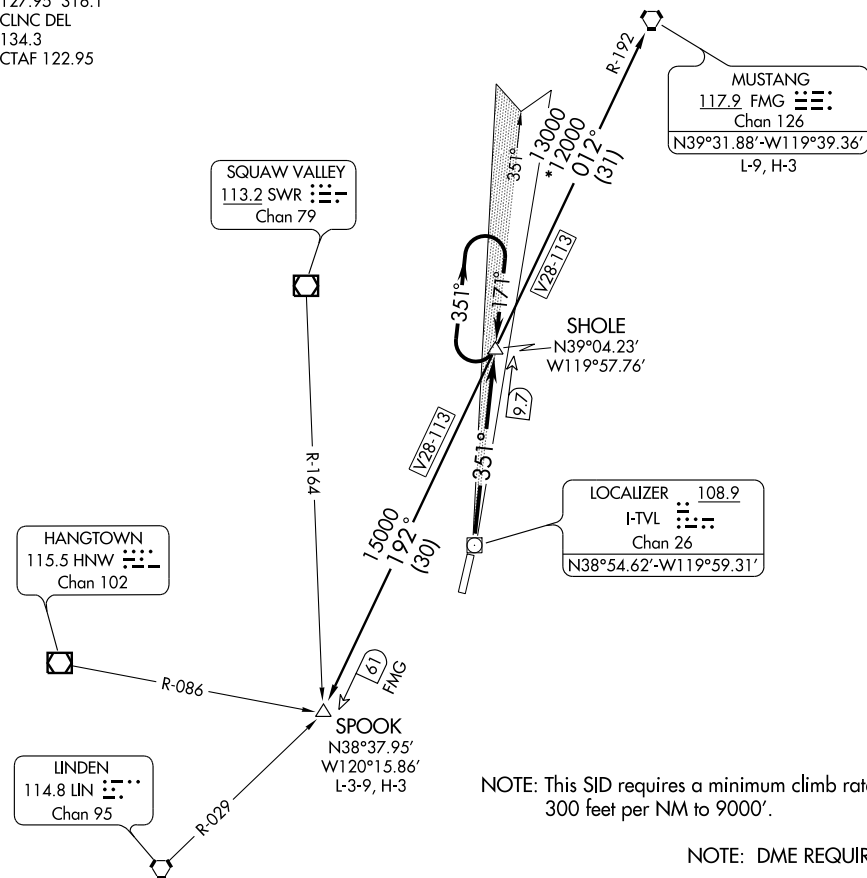
MARRI TRANSITION (RICHY5.MARRI): From over RICHY INT via SWR R-117 to MARRI INT. Cross MARRI INT at 13000'. Expect further clearance to filed altitude after MARRI INT.

SPOOK TRANSITION (RICHY5.SPOOK): From over RICHY INT via FMG R-192 to SPOOK INT. Expect further clearance to filed altitude after SPOOK INT.

TILTS TRANSITION (RICHY5.TILTS): From over RICHY INT via SWR R-117 to TILTS INT. Cross MARRI INT at 13000'. Expect further clearance to filed altitude after MARRI INT.

SHOLE ONE DEPARTURE

SL-5416 (FAA)

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)
SOUTH LAKE TAHOE, CALIFORNIAOAKLAND CENTER
127.95 316.1
CLNC DEL
134.3
CTAF 122.95

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 18: Not authorized.TAKE-OFF RUNWAY 36: Climb northbound via I-TVL localizer north course to SHOLE I-TVL 9.7 DME Fix. Continue climb in SHOLE 9.7 DME holding pattern, north 4 NM leg, right turns, 171° inbound I-TVL localizer until reaching 13000', thence via (transition) or (assigned route).MUSTANG TRANSITION (SHOLE1.FMG): From over SHOLE DME via FMG R-192 to FMG VORTAC.SPOOK TRANSITION (SHOLE1.SPOOK): From over SHOLE DME via FMG R-192 to SPOOK INT.

VOR/DME SWR 113.2 Chan 79	APP CRS 117°	Rwy Idg TDZE Apt Elev	N/A N/A 6264
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VOR/DME or GPS-A

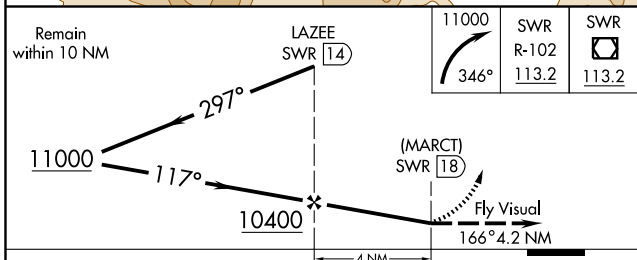
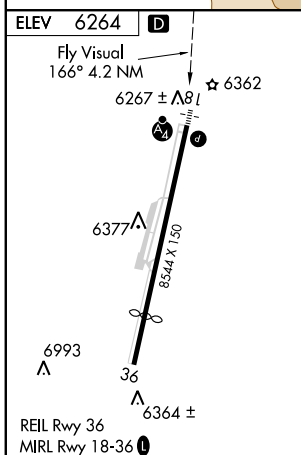
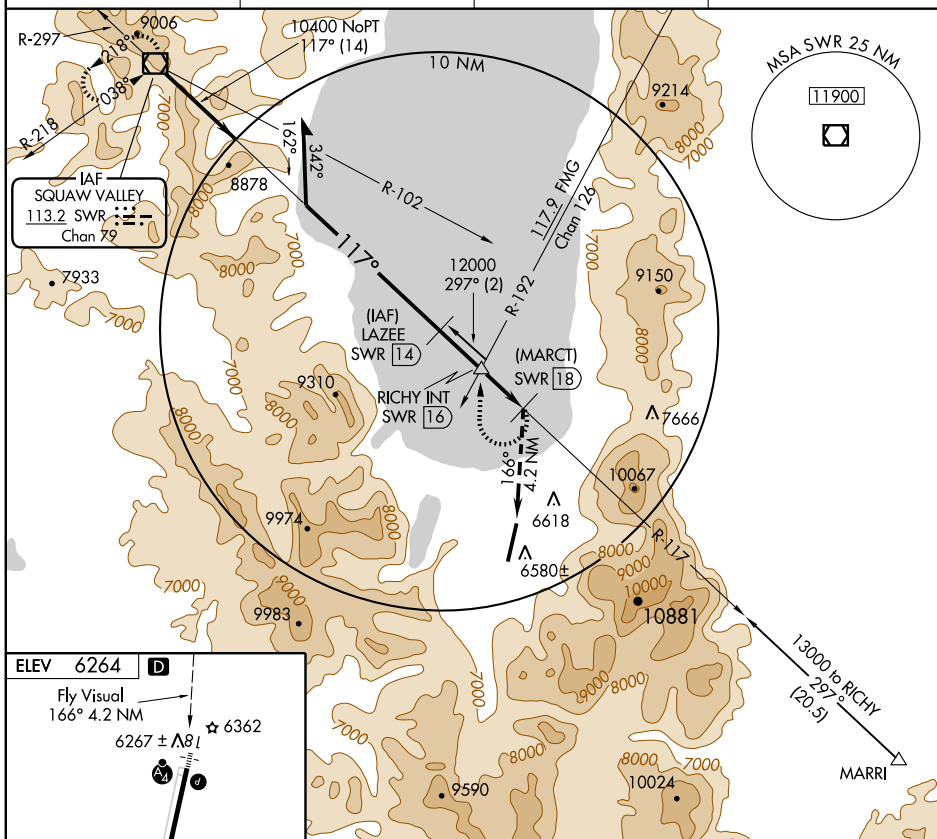
SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

- | | |
|----------|---|
| T | * Circling to Rwy 36 not authorized at night. |
| A | Air carrier landing visibility reduction for local conditions not authorized. |

MISSED APPROACH: Climbing right turn to 11000 via heading 346° and SWR R-102 to SWR VOR/DME and hold.

ASOS
124.725

OAKLAND CENTER
127.95 316.1

CLNC DEL
134.3UNICOM
122.95 (CTAF) **L**

							CATEGORY	A	B	C	D
Knots	60	90	120	150	180		CIRCLING*	8800-5 2536 (2600-5)			
Min:Sec											



LOC I-SCK <u>109.1</u>	APP CRS 291°	Rwy Idg TDZE Apt Elev	8701 30 30
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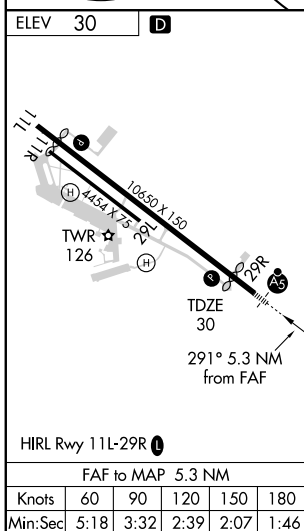
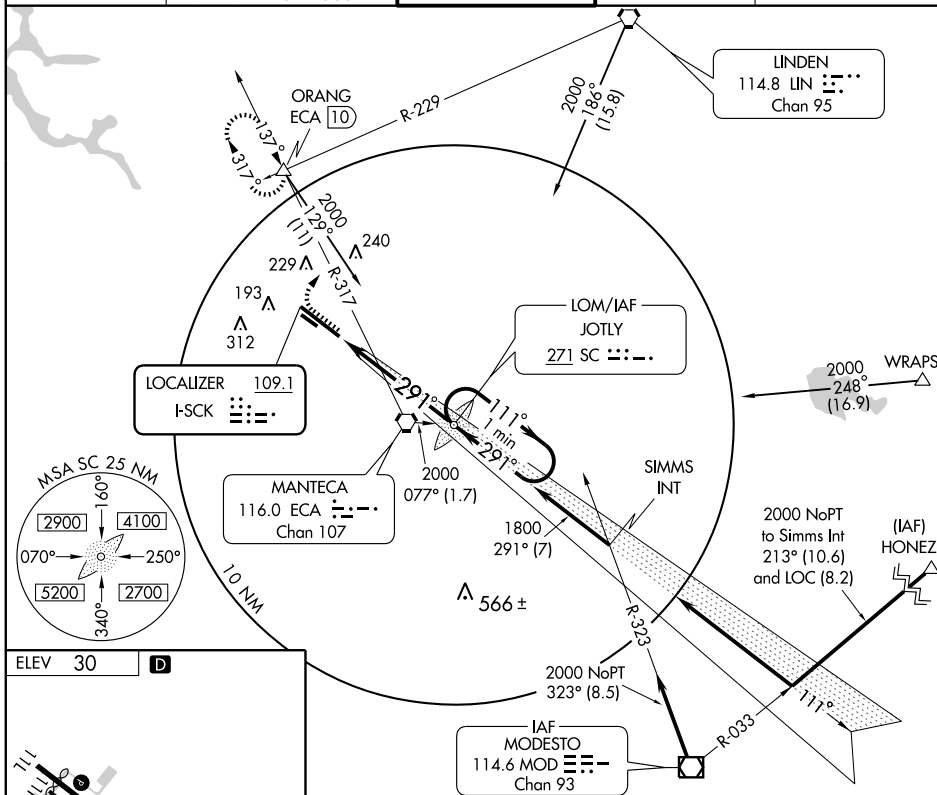
ILS or LOC RWY 29R
STOCKTON METROPOLITAN (SCK)

T
A For inoperative MALSR, increase S-LOC 29R Cat D visibility to 1 mile.



MISSED APPROACH: Climb to 500 then climbing right turn to 2000 via heading 010° and ECA R-317 to ORANG Int and hold

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER* 120.3 (CTAF) 0 239.0	GND CON 121.9	UNICOM 122.95
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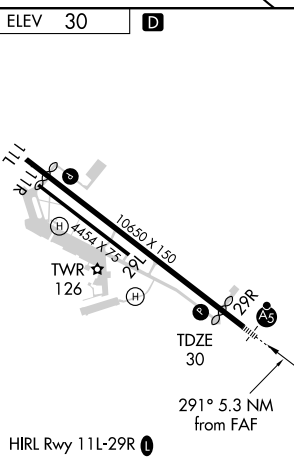
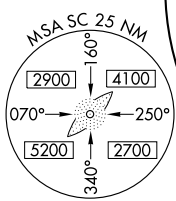
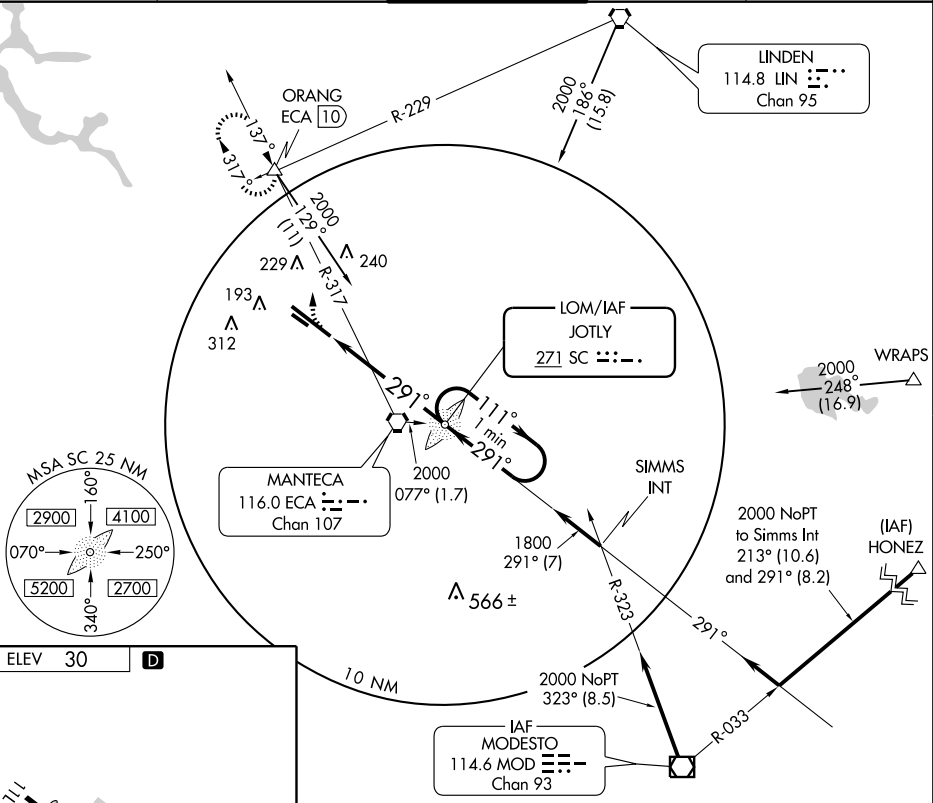
500 ↑	2000 ↗ 010°	ECA R-317 116.0	ORANG △	One Minute Holding Pattern LOM 1758 1800 111° ← 291° 1800 GS 2.90° TCH 62 5.3 NM			
CATEGORY S-ILS 29R	A	B		C	D		
	230/24		200 (200-½)				
S-LOC 29R	360/24		330 (400-½)		360/40 330 (400-¾)		
CIRCLING	500-1 470 (500-1)	540-1 510 (600-1)	540-1½ 510 (600-1½)		700-2 670 (700-2)		

LOM SC	APP CRS	Rwy Idg	8701
271	291°	TDZE	30
		Apt Elev	30

MALSRR

MISSED APPROACH: Climbing right turn to 2000 via heading 010° and ECA R-317 to ORANG Int and hold.

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER★ 120.3 (CTAF) 239.0	GND CON 121.9	UNICOM 122.95
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2000	ECA R-317 116.0	ORANG △	LOM	One Minute Holding Pattern
CATEGORY	A	B	C	D
S-29R	520/40 490 (500-¾)			520/60 490 (500-¼)
CIRCLING	520-1 490 (500-1)	540-1 510 (600-1)	540-1½ 510 (600-1½)	700-2 670 (700-2)

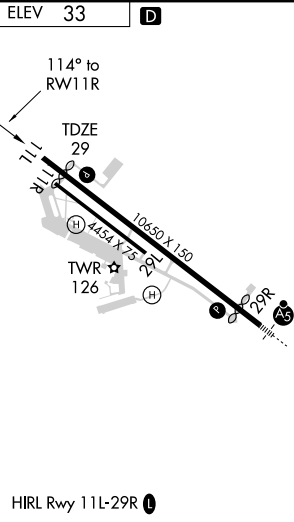
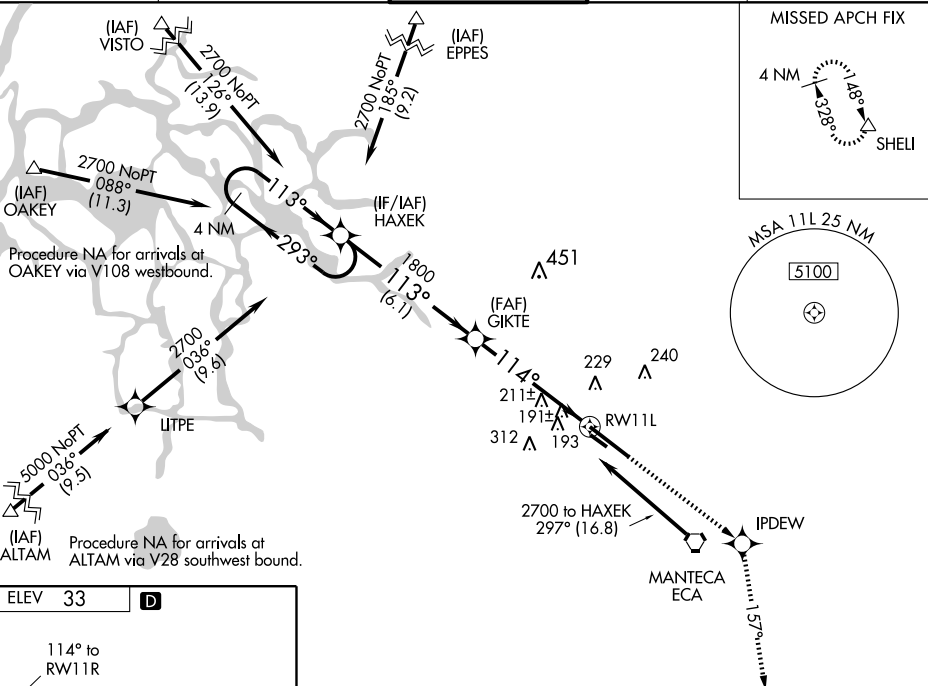
SW-2, 14 JAN 2010 to 11 FEB 2010

WAAS CH 72910 W11A	APP CRS 114°	Rwy Idg TDZE 29 Apt Elev 33
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⚠ Baro-VNAV NA when using Modesto altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME-RNP-0.3 NA. When local altimeter setting not received, use Modesto altimeter setting: increase all DA 58 feet and LPV and LNAV/VNAV all Cats visibility ¼ mile; increase all MDA 60 feet and LNAV Cat C and circling Cat D visibility ¼ mile. VDP NA with Modesto altimeter setting.

MISSED APPROACH: Climb to 3000 direct IPDEW and right turn via 157° track to SHEL and hold.

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER★ 120.3 (CTAF) 239.0	GND CON 121.9	UNICOM 122.95
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4 NM Holding Pattern		HAXEK	3000	IPDEW	SHEL
2700		293°	113°	113°	157°
VGSI and RNAV glidepath not coincident.		GIKTE	1.2 NM to RWY 11L*	*LNAV only	
GS 3.00°		1800	6.1 NM	4.1 NM	1.2 NM
TCH 50					
CATEGORY	A	B	C	D	
LPV DA		279-3/4	250 (300-3/4)		
LNAV/VNAV DA		512-1 3/4	483 (500-1 3/4)		
LNAV MDA	480-1	451 (500-1)	480-1 1/4 451 (500-1 1/4)	480-1 1/2 451 (500-1 1/2)	
CIRCLING	500-1 467 (500-1)	540-1 507 (600-1)	540-1 1/2 507 (600-1 1/2)	680-2 647 (700-2)	

SW-2 14 JAN 2010 to 11 FEB 2010

WAAS CH 87010 W29A	APP CRS 294°	Rwy Idg TDZE Apt Elev	8701 32 33
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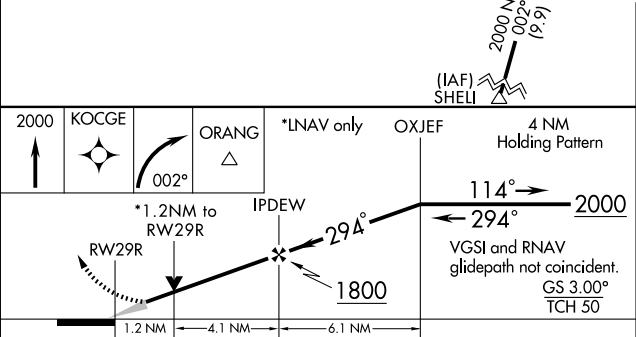
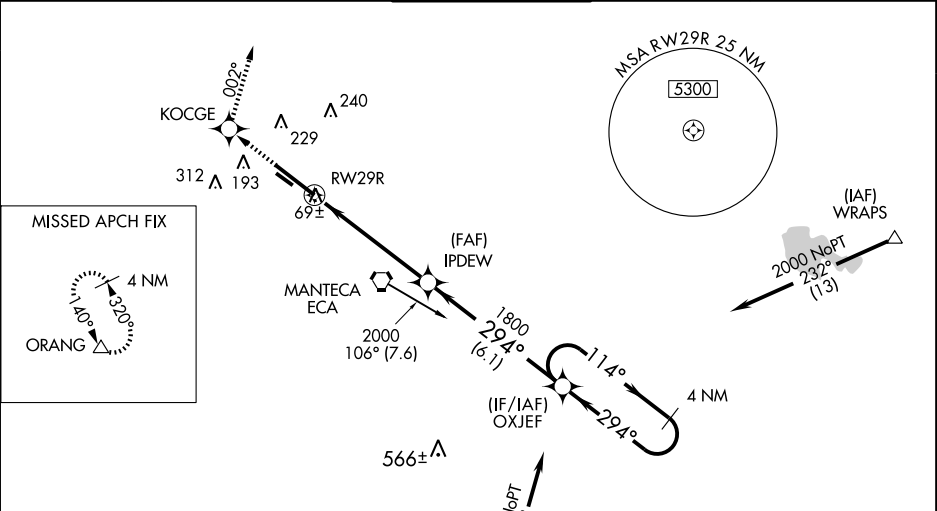
RNAV (GPS) RWY 29R
STOCKTON METROPOLITAN (SCK)

T For inoperative MALSR, increase LNAV/VNAV Cat D visibility to RVR 5000.
A Baro-VNAV NA when using Modesto altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Modesto altimeter setting: increase all DA 58 feet and LNAV/VNAV Cats A/B/C visibility ¼ mile; increase all MDA 60 feet and circling Cat D visibility ¼ mile. For inoperative MALSR, when using Modesto altimeter setting, increase LPV all Cats visibility to 1 mile. VDP NA with Modesto altimeter setting.

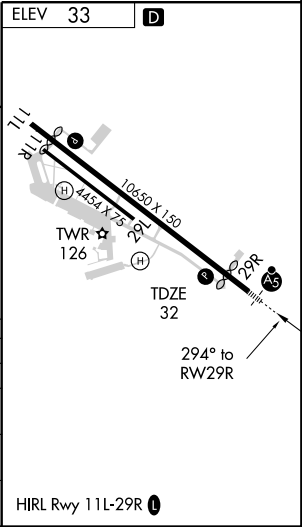
MALSR

MISSED APPROACH: Climb to 2000 direct KOCGE and right turn via 002° track to ORANG and hold, continue climb-in-hold to 2000.

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER ★ 120.3 (CTAF) 0 239.0	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	282/24		250 (300-½)	
LNAV/VNAV DA	327/24		295 (300-½)	
LNAV MDA	460/24		460/40	
CIRCLING	500-1	540-1	540-1½	680-2



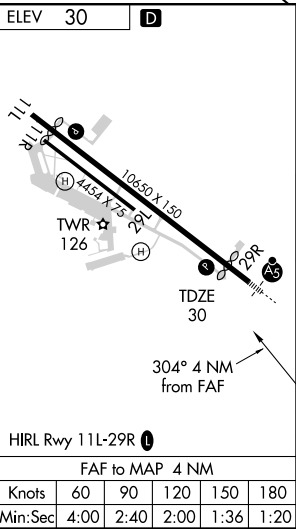
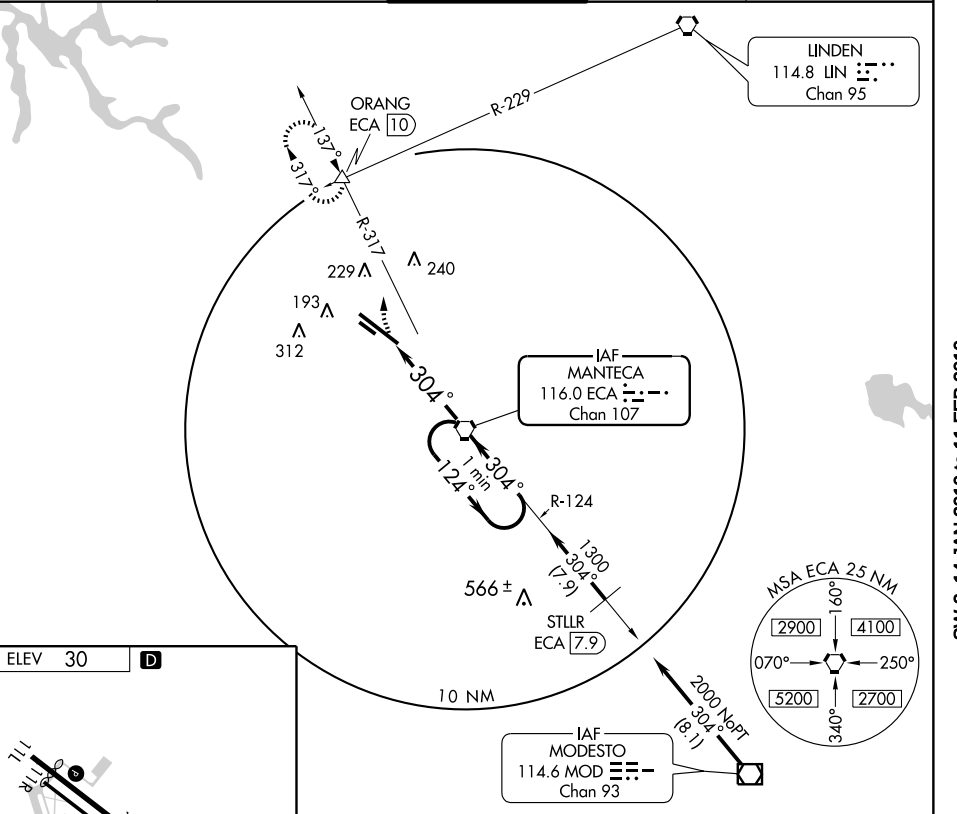
VORTAC ECA	APP CRS	Rwy Idg	8701
116.0	304°	TDZE	30
Chan 107		Apt Elev	30

Inoperative table does not apply.

MALSR

MISSED APPROACH: Climbing right turn to 2000 via heading 010° and ECA R-317 to ORANG Int and hold.

ATIS 118.25	NORCAL APP CON (SE-NW) 123.85 278.3 (N-SE) 125.1 363.2	STOCKTON TOWER ★ 120.3 (CTAF) 239.0	GND CON 121.9	UNICOM 122.95
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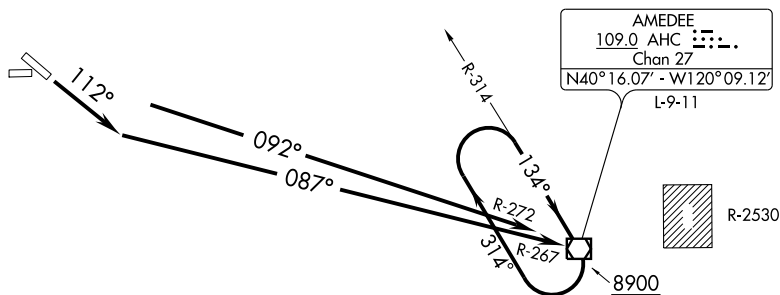


2000  010°	ECA R-317 116.0	ORANG △	VORTAC One Minute Holding Pattern	
ECA 4	1300	124° 304° 1600		
4 NM				
CATEGORY	A	B	C	D
S-29R	460/50	430 (500-1)	460/60 430 (500-1½)	460-1½ 430 (500-1½)
CIRCLING	500-1 470 (500-1)	540-1 510 (600-1)	540-1½ 510 (600-1¼)	700-2 670 (700-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

AMEDEE ONE DEPARTURE (OBSTACLE)

OAKLAND CENTER
128.8 285.5
CTAF 122.8

TAKE-OFF MINIMUMS

Rwy 7, 25, 29: NA- obstacles.

Rwy 11: Standard with minimum climb of 410' per NM to 6000
or 1900-2½ for climb in visual conditions.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Climb via 112° heading and AHC R-267 to AHC VOR/DME, Thence....

Or climb in visual conditions to cross Susanville Muni Airport eastbound at or above 6000, then via AHC R-272 to AHC VOR/DME, Thence....

....cross AHC VOR/DME at or above 8900'. Climb in AHC holding pattern (hold NW, right turns, 134° inbound) to depart AHC VOR/DME at or above 14000 before proceeding on course.

APP CRS	Rwy Idg	N/A
142°	TDZE	N/A
	Apt Elev	4149

RNAV (GPS)-A

SUSANVILLE MUNI (SVE)

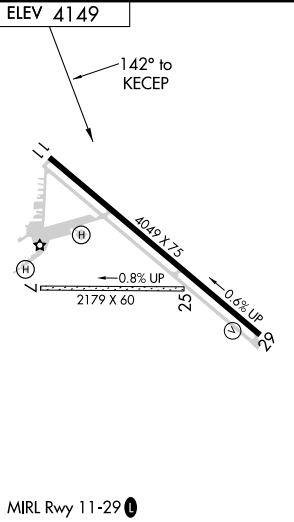
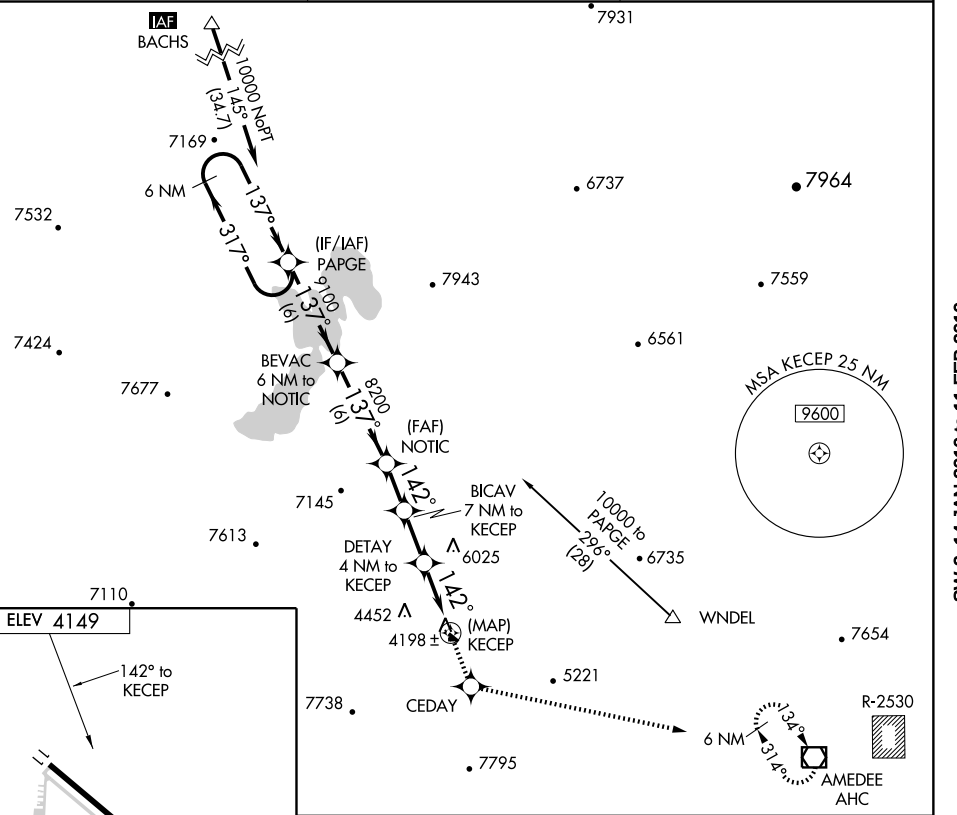
▼

▲ NA

If local altimeter setting not received, use Reno/Stead altimeter setting and increase all MDAs 720 feet.
Circling to Rwy 7/25 NA.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climb to 14000 direct CEDAY WP and via 085° track to AHC VOR/DME and hold.

AWOS-3 133.8	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF) 0
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6 NM Holding Pattern PAPER				14000	CEDAY	085° track	AHC
10000 ← 317° 137° → 9100				8200	7400	6600	CECP
* 7800 when using Reno/Stead altimeter setting				6 NM	6 NM	2.7 NM	3 NM
CATEGORY	A	B	C	D			
CIRCLING	5040-1¼ 891 (900-1¼)			5040-2¾ 891 (900-2¾)	5040-3 891 (900-3)		

SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	4049
297°	TDZE	4145
	Apt Elev	4149

RNAV (GPS) RWY 29

SUSANVILLE MUNI (SVE)

▽ If local altimeter setting not received, use Reno/Stead altimeter setting and increase all MDAs 720 feet.

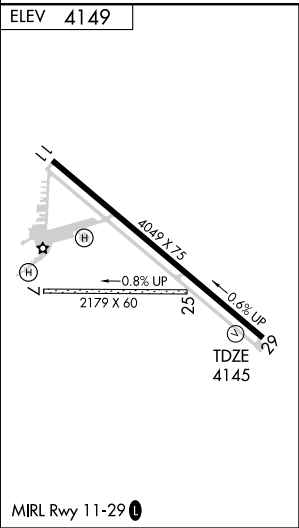
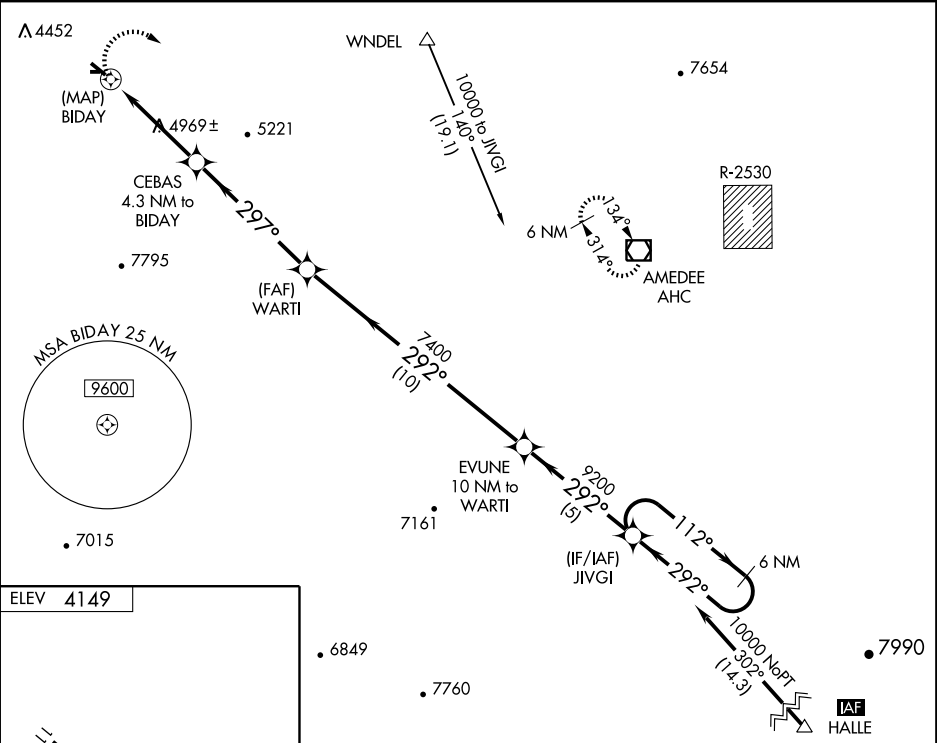
△ NA Straight-in minimums NA when using Reno/Stead altimeter setting. Circling to Rwy 7/25 NA.

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing right turn to 14000 direct AHC VOR/DME and hold.

AWOS-3 133.8	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF) 0
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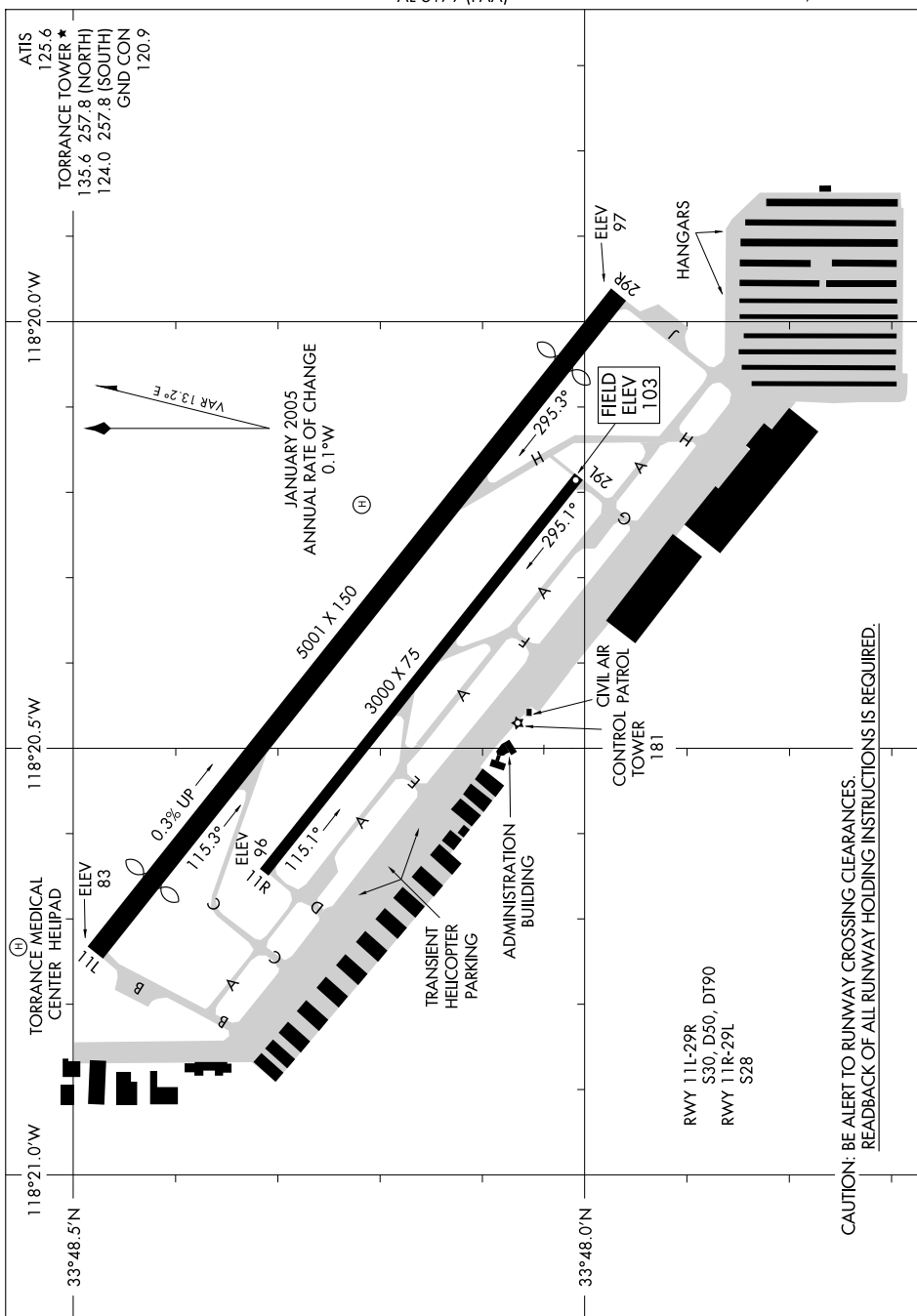


14000	AHC	*6140 when using Reno/Stead altimeter setting.	EVUNE 10 NM to WARTI	JIVGI	6 NM Holding Pattern
		CEBAS 4.3 NM to BIDAY	WARTI		
		BIDAY			
		5620*	7400	9200	10000
		297°	292°	112°	292°
		3.05°			
		TCH 45			
					VGSI and descent angles not coincident.
		0.2	4.3 NM	5.5 NM	10 NM
CATEGORY	A	B	C	D	
LNAV MDA	5220-1¼ 1075 (1100-1¼)	5220-1½ 1075 (1100-1½)	5220-3	1075 (1100-3)	
CIRCLING	5220-1¼ 1071 (1100-1¼)	5220-1½ 1071 (1100-1½)	5220-3	1071 (1100-3)	

AIRPORT DIAGRAM

AL-5179 (FAA)

TORRANCE/ZAMPERINI FIELD (TOA)
TORRANCE, CALIFORNIA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-3. 14 JAN 2010 to 11 FEB 2010

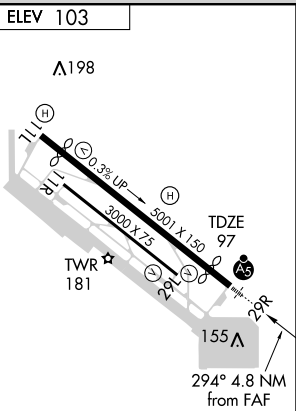
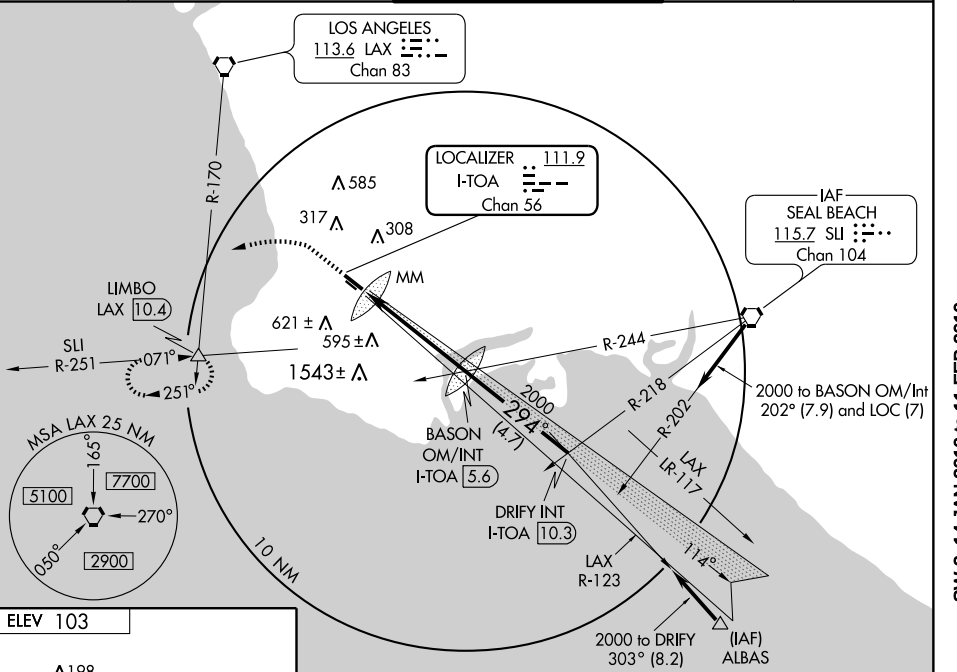
LOC/DME I-TOA	APP CRS	Rwy Idg	4461
111.9	294°	TDZE	97
Chan 56		Apt Elev	103

When control tower closed, except for operators with approved weather reporting service, use Los Angeles altimeter setting.
Inoperative table does not apply.
Circling NA southwest of Rwy 11R-29L.

MALSR

MISSED APPROACH: Climb to 1100 then climbing left turn to 3000 via heading 250° and LAX R-170 to LIMBO Int/LAX 10.4 DME and hold.

ATIS	SOCAL APP CON	TORRANCE TOWER*	GND CON	UNICOM
125.6	124.3 363.2 (Rwys 11L, 11R)	135.6 257.8 (NORTH)	120.9	122.95
	127.2 269.6 (Rwys 29L, 29R)	124.0 (CTAF) 257.8 (SOUTH)		



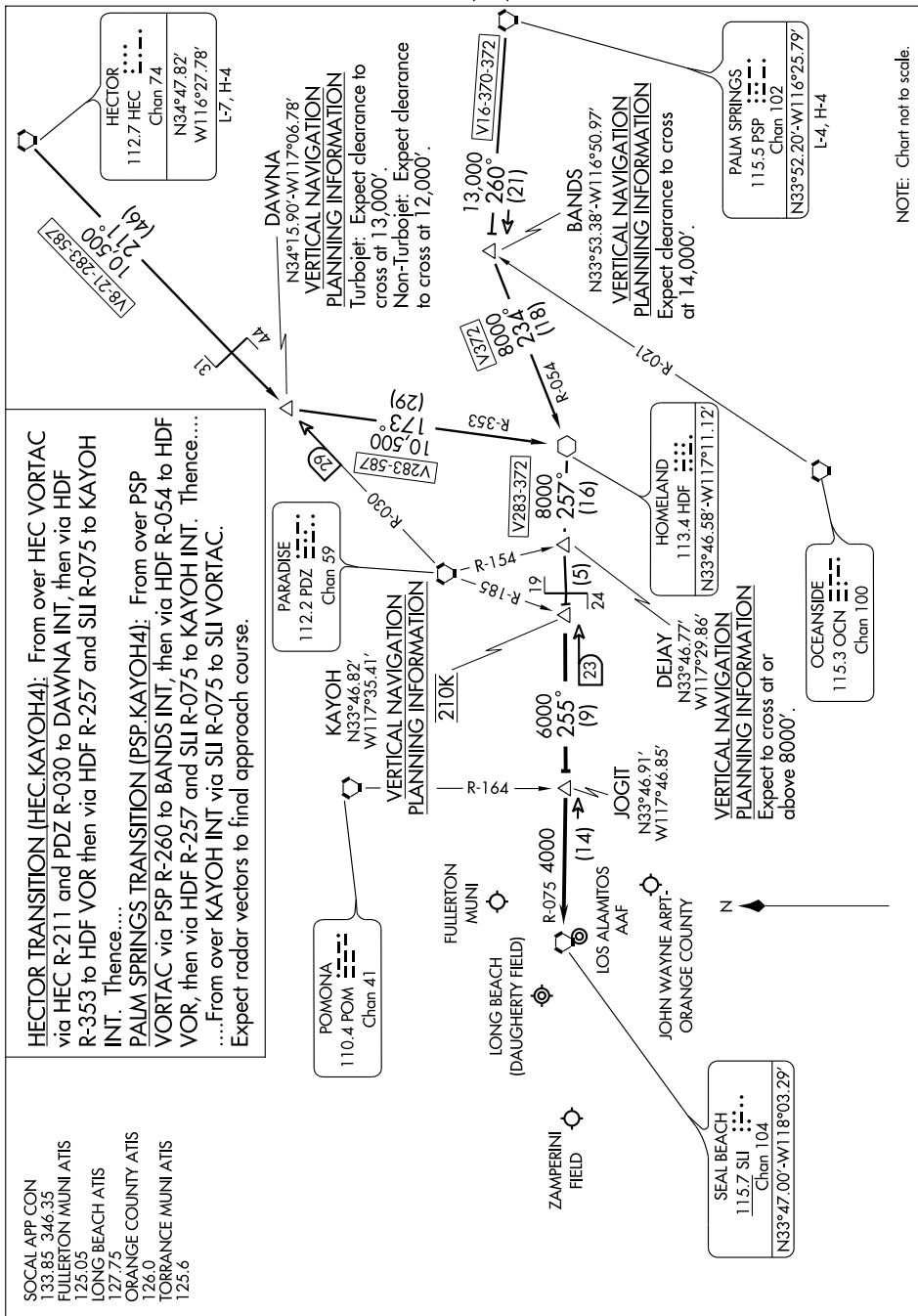
REIL Rwy 29L
MIRL Rwys 11L-29R and 11R-29L

1100 ↑	3000 ↘ 250°	LAX R-170 113.6	LIMBO △	BASON OM/INT I-TOA 5.6	DRIFT INT I-TOA 10.3	
VGSI and ILS glidepath not coincident.						
1895 I-TOA 0.8 MM GS 3.40° TCH 52' 4.4 NM 4.7 NM 294° 2000 2000* *LOC only Procedure Turn NA						
CATEGORY	A		B		C	D
S-ILS 29R	381-3/4		284 (300-3/4)		NA	
S-LOC 29R	620-1		523 (600-1)		NA	
CIRCLING	620-1		517 (600-1)		NA	
LOS ANGELES ALTIMETER SETTING MINIMUMS						
S-ILS 29R	405-1		308 (400-1)		NA	
S-LOC 29R	660-1		563 (600-1)		NA	
CIRCLING	660-1		557 (600-1)		NA	

KAYOH FOUR ARRIVAL

ST-236 (FAA)

LONG BEACH, CALIFORNIA



VORTAC LAX 113.6 Chan 83	APP CRS 135°	Rwy Idg 4459 TDZE 96 Apt Elev 103
--	------------------------	--

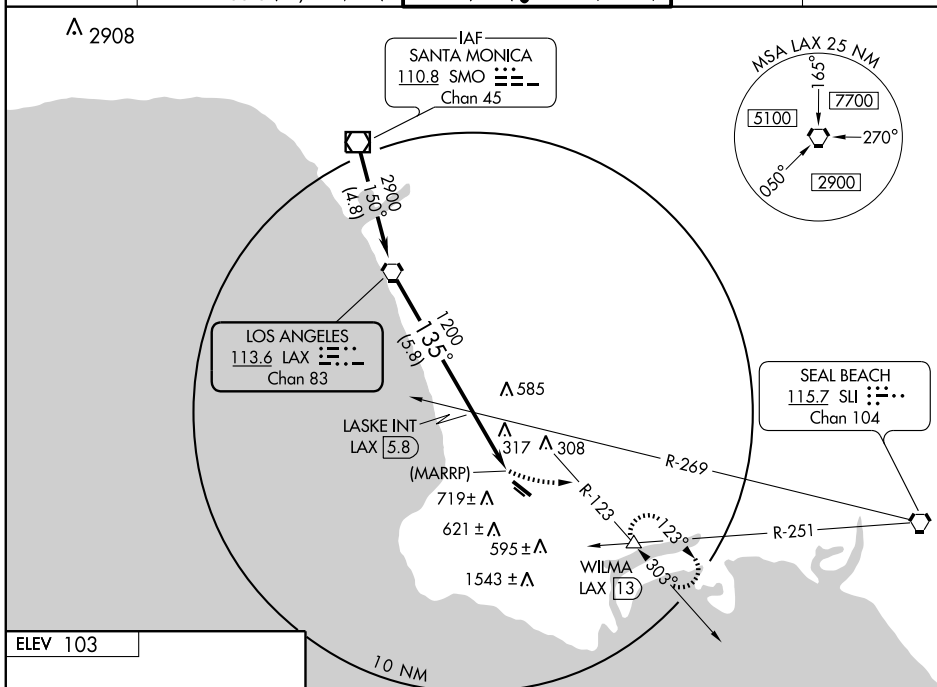
VOR or GPS RWY 11L

TORRANCE/ ZAMPERINI FIELD (TOA)

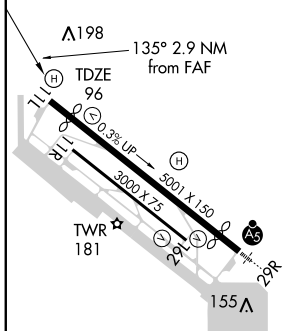
⚠ When control tower closed, except for operators with approved weather reporting service, use Los Angeles altimeter setting. Circling NA southwest of Rwy 11R-29L.

MISSED APPROACH: Climbing left turn to 3000 via heading 075° and LAX R-123 to WILMA Int and hold.

ATIS 125.6	SOCAL APP CON 124.3 363.2 (Rwys 11L, 11R) 127.2 269.6 (Rwys 29L, 29R)	TORRANCE TOWER* 135.6 257.8 (NORTH) 124.0 (CTAF) 0 257.8 (SOUTH)	GND CON 120.9	UNICOM 122.95
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ELEV 103



REIL Rwy 29L
MIRL Rws 11L-29R and 11R-29L

FAF to MAP 2.4 NM						
Knots	60	90	120	150	180	
Min:Sec	2:24	1:36	1:12	0:58	0:48	

VORTAC 2900				
Procedure Turn NA				
VGSI and descent angles not coincident.				
5.8 NM				
2.4 NM				
0.5 NM				
CATEGORY	A	B	C	D
S-11L	980-1¼	884 (900-1¼)	NA	NA
CIRCLING	980-1¼	877 (900-1¼)	NA	NA
LOS ANGELES ALTIMETER SETTING MINIMUMS				
S-11L	1020-1¼	924 (1000-1¼)	NA	NA
CIRCLING	1020-1¼	917 (1000-1¼)	NA	NA

NDB TCY	APP CRS	Rwy Idg	4001
203	114°	TDZE	193
		Apt Elev	193

NDB RWY 12

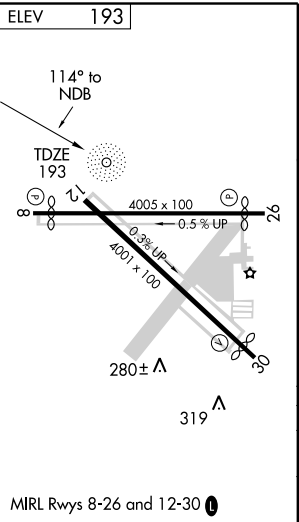
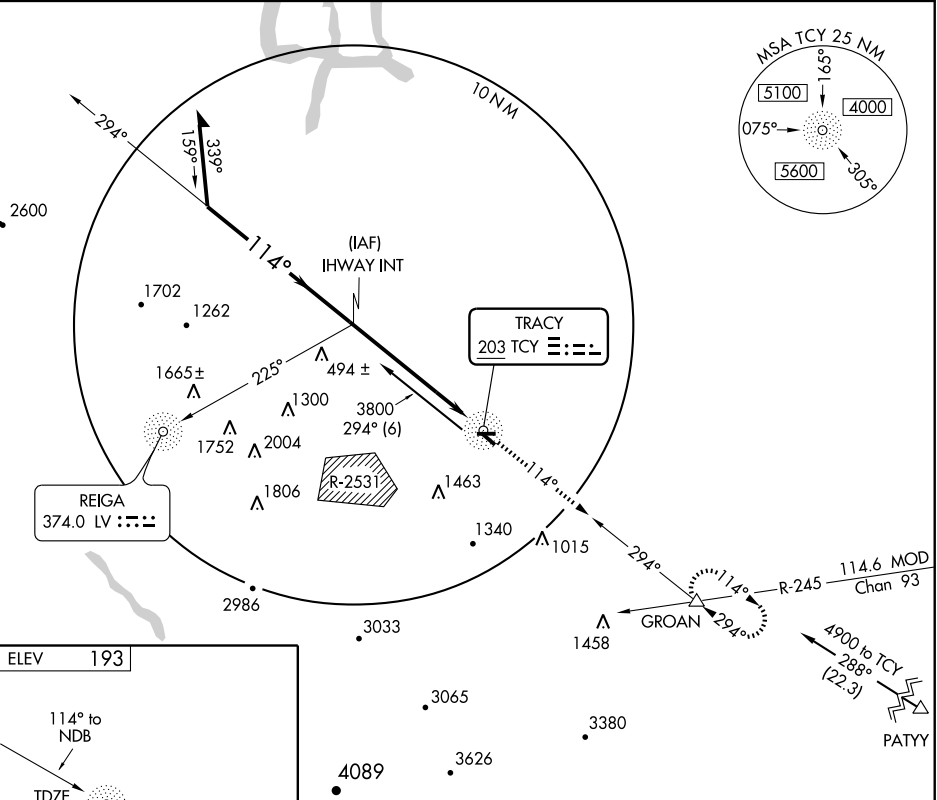
TRACY MUNI (TCY)

NA

Circling NA southwest of Rwy 12-30.
When local altimeter setting not received use Stockton Metro
altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 3000 via 114° bearing
from TCY NDB to GROAN INT and hold.

AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF)
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Remain within 10 NM

3000
↑
TCY 114°

GROAN
△

CATEGORY	A	B	C	D
S-12	840-1 647 (700-1)		840-1¾ 647 (700-1¾)	NA
CIRCLING	840-1 647 (700-1)		840-1¾ 647 (700-1¾)	NA

SW-2, 14 JAN 2010 to 11 FEB 2010

▼

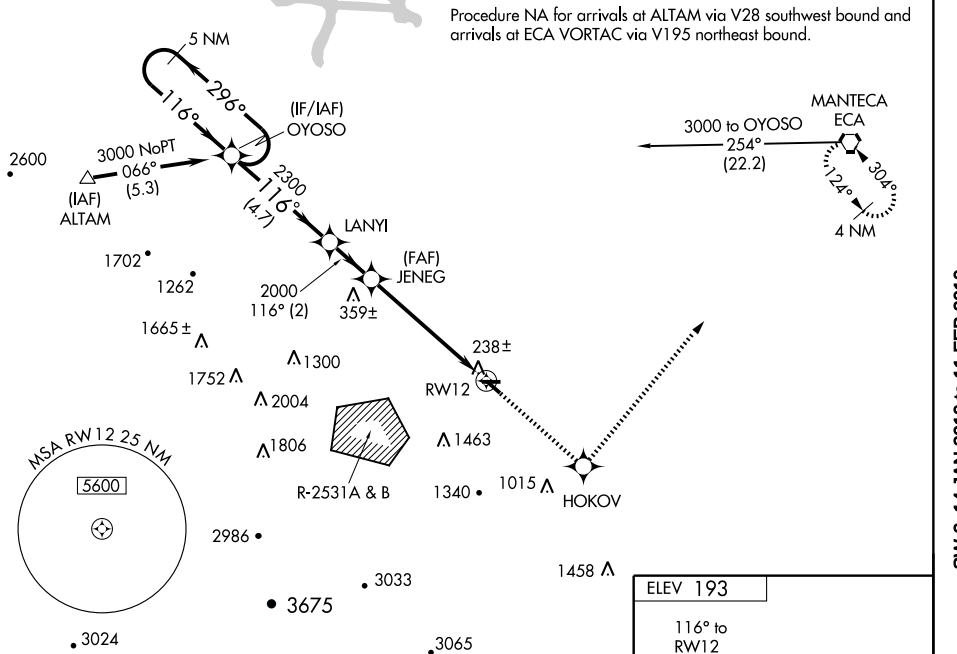
▲ NA

■ W

If local altimeter setting not received, use Stockton Metropolitan altimeter setting and increase all DAs/MDAs 60 feet.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 97°C (207°F).
Baro-VNAV NA when using Stockton Metropolitan altimeter setting.
DME/DME RNP -0.3 NA. Circling NA southwest of Rwy 12-30.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 3000 direct HOKOV and left turn via 024° track to ECA VORTAC and hold.

AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF) 0
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5 NM Holding Pattern				
OYOSO				
LANYI				
JENEG				
RW12				
Elev 193				
116° to RW12				
TDZE 193				
4005 x 100				
0.3% UP				
4001 x 100				
280±				
319				
MIRL Rwy 8-26 and 12-30				
CATEGORY	A	B	C	D
LPV DA	448-1	255 (300-1)		NA
LNAV/VNAV DA	656-1¾	463 (500-1¾)		NA
LNAV MDA	800-1	607 (700-1)	800-1¾ 607 (700-1¾)	NA
CIRCLING	800-1¾	607 (700-1¾)		NA

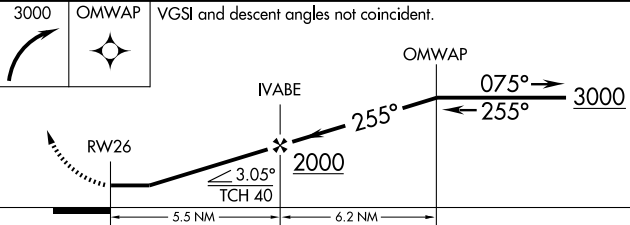
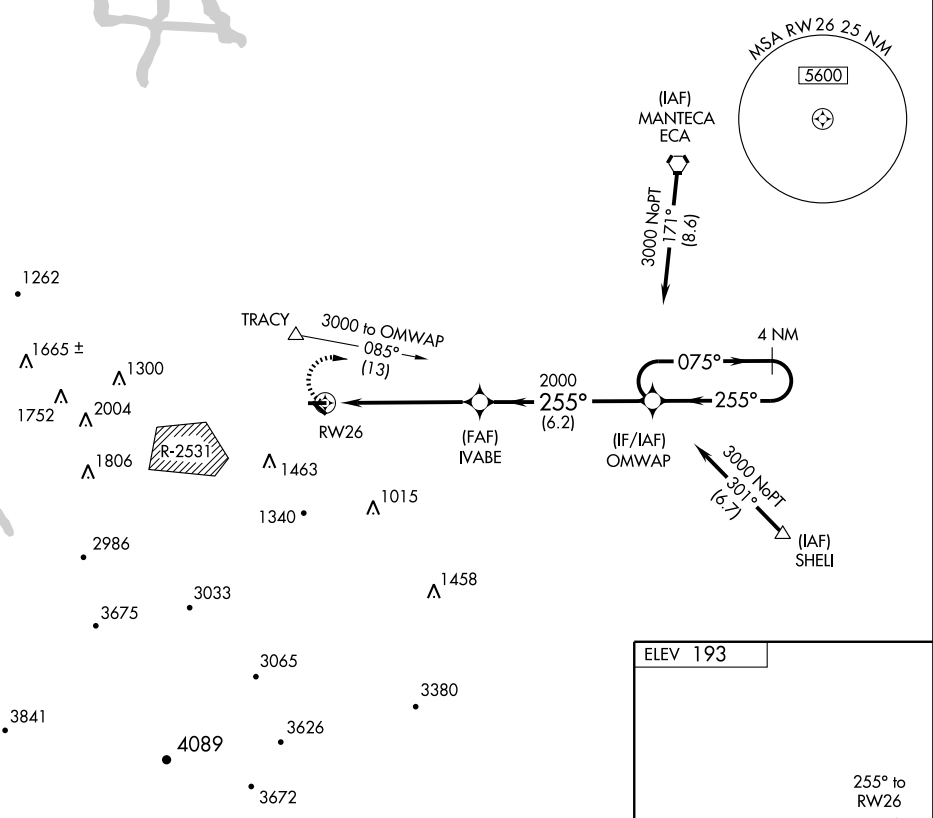
▼

▲ NA

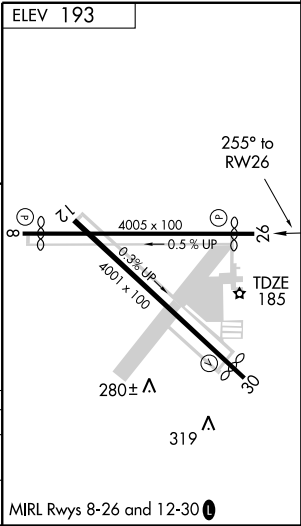
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received use Stockton Metropolitan altimeter setting and increase all MDA 60 feet. Circling NA Southwest of Rwy 12-30.

MISSED APPROACH: Climbing right turn to 3000 direct to OMWAP and hold.

AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	600-1 407 (500-1)	415 (500-1)	600-1¼ 415 (500-1¼)	NA
CIRCLING	600-1 407 (500-1)	660-1 467 (500-1)	660-1½ 467 (500-1½)	NA



MIRL Rwy 8-26 and 12-30 0

SW-2. 14 JAN 2010 to 11 FEB 2010

▼

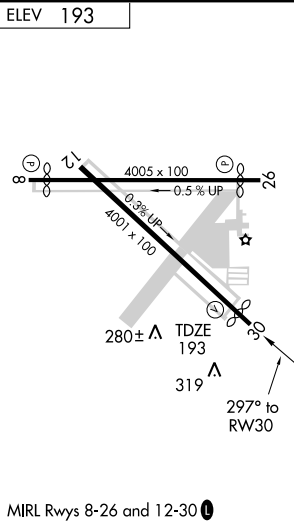
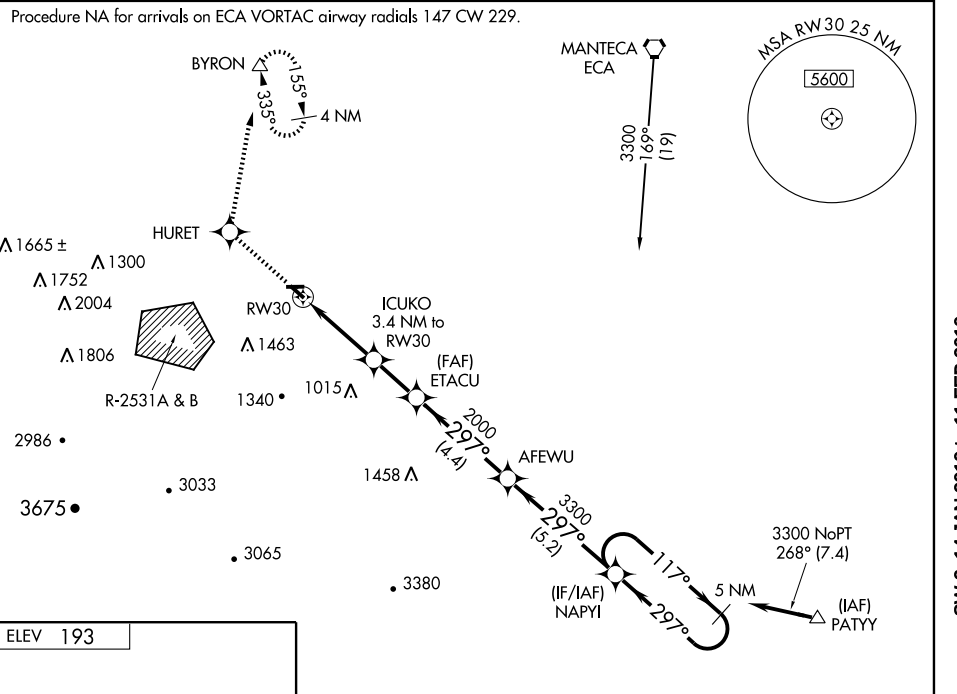
▲ NA

■

If local altimeter setting not received, use Stockton Metropolitan altimeter setting and increase all DAs/MDAs 60 feet.
Circling NA southwest of Rwy 12-30.
DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2300 direct HURET and via 355° track to BYRON and hold.

AWOS-3 118.375	NORCAL APP COM 123.85 278.3	UNICOM 122.8 (CTAF) 0
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2300	HURET	355° track	BYRON	VGSI and RNAV glidepath not coincident.	5 NM Holding Pattern
*LNAV only	ICUKO 3.4 NM to RW30	ETACU	AFEWU	NAPYI	
RW30	1320*	2000	297°	3300	117° 3300
3.4 NM	2.1 NM	4.4 NM	5.2 NM		GS 3.00° TCH 45
CATEGORY	A	B	C	D	
LPV DA	477-1 284 (300-1)				NA
LNAV/VNAV DA	NA				
LNAV MDA	680-1	487 (500-1)	680-1¼ 487 (500-1¼)	NA	
CIRCLING	680-1	487 (500-1)	680-1½ 487 (500-1½)	NA	

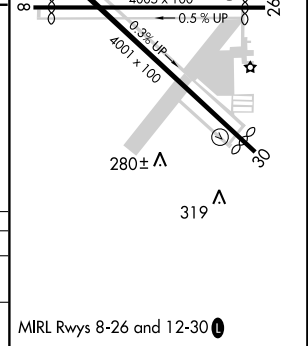
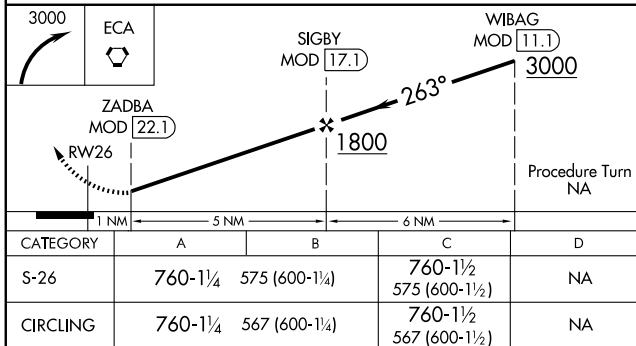
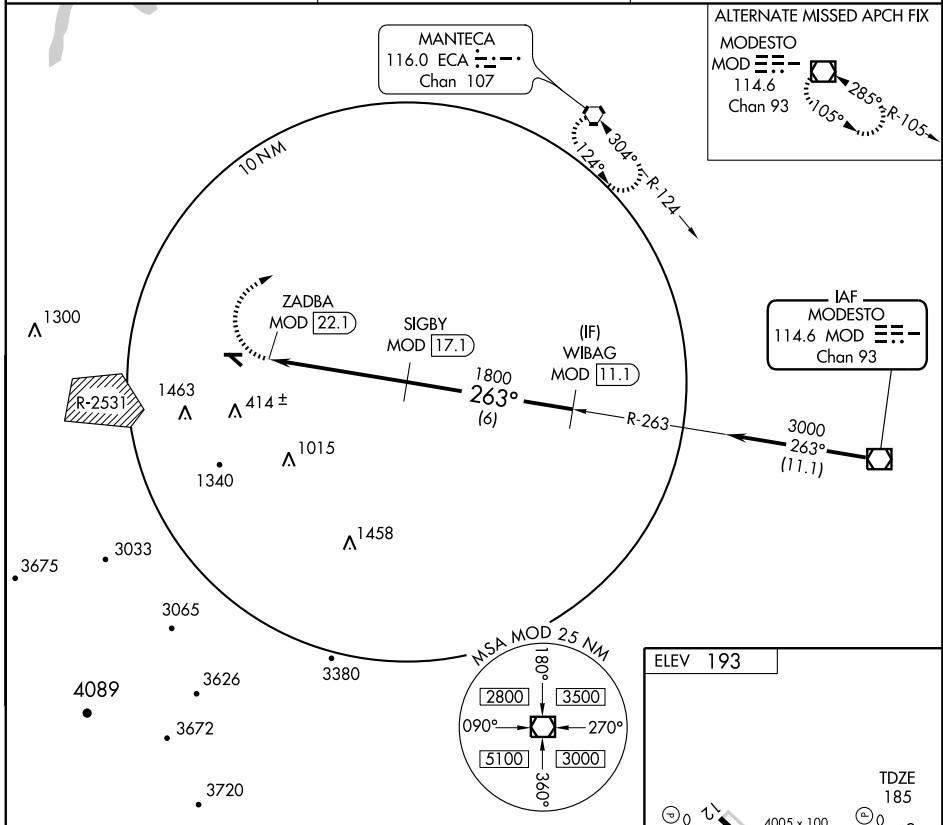
VOR/DME MOD 114.6 Chan 93	APP CRS 263°	Rwy Idg TDZE Apt Elev	3710 185 193
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VOR/DME RWY 26

TRACY MUNI (TCY)

Visibility reduction by helicopters NA. When local altimeter setting not received use Stockton Metro altimeter setting and increase all MDA 60 feet, increase S-26 Cat C visibility ¼ mile and Circling Cat C visibility ¼ mile. Circling NA Southwest of Rwy 12-30.	MISSED APPROACH: Climbing right turn to 3000 direct to ECA VORTAC and hold.
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AWOS-3 118.375	NORCAL APP CON 123.85 278.3	UNICOM 122.8 (CTAF)
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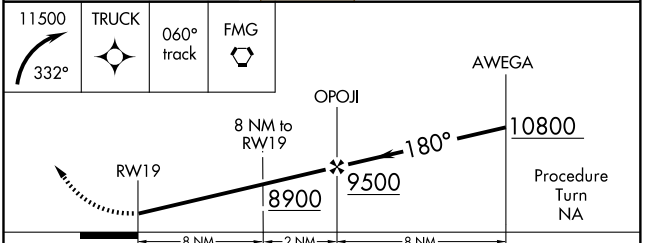
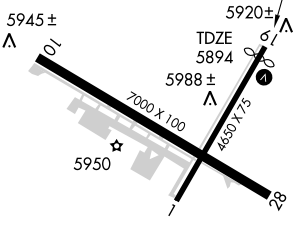
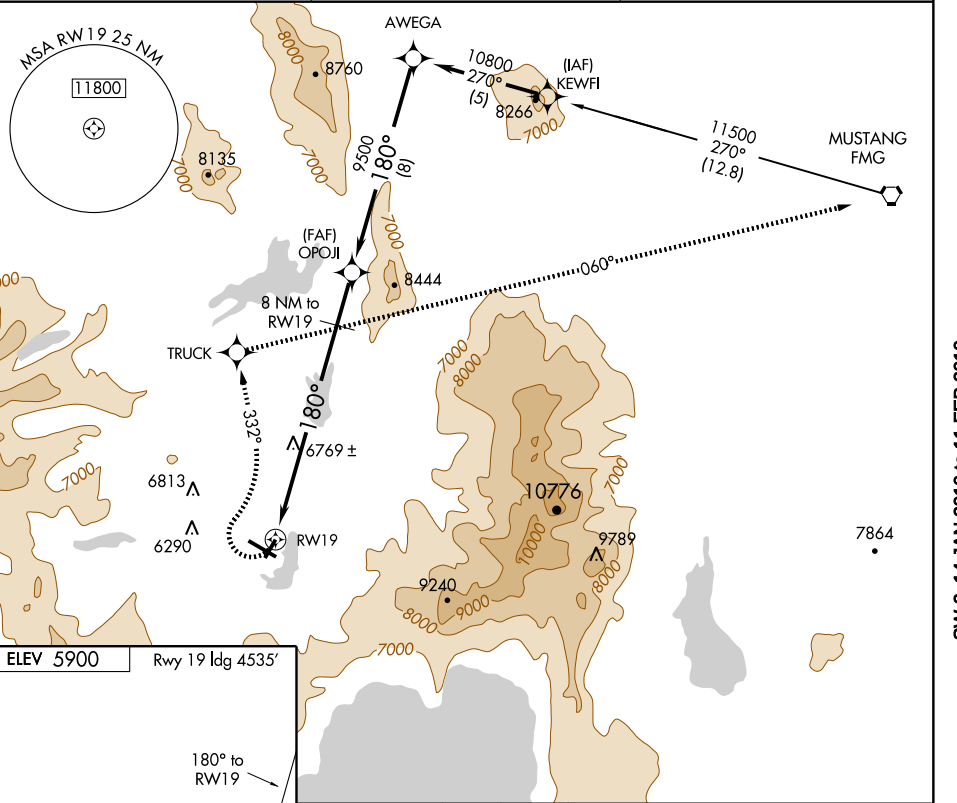


▼

NA

MISSED APPROACH: Climbing right turn to 11500 via 332° course to TRUCK WP then via 060° course to FMG VORTAC.

AWOS-3 118.0	OAKLAND CENTER 127.95 316.1	UNICOM 122.8 (CTAF) 0
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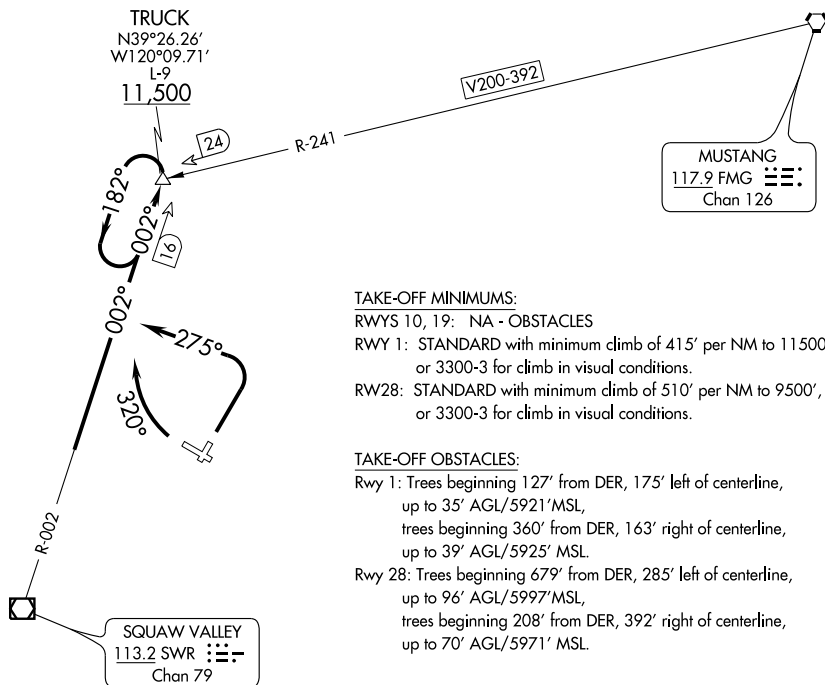


REIL Rwy 10 MIRL Rws 10-28 and 1-19 0	ELEV 5900 Rwy 19 Idg 4535'			
	180° to RWY 19			
CATEGORY	A	B	C	D
	7340-1¼ 1446 (1500-1¼)	7340-1½ 1446 (1500-1½)	7340-3 1446 (1500-3)	7360-3 1460 (1500-3)
CIRCLING	7340-1¼ 1440 (1500-1¼)	7340-1½ 1440 (1500-1½)	7340-3 1440 (1500-3)	7360-3 1460 (1500-3)

SW-2, 14 JAN 2010 to 11 FEB 2010

TRUCK THREE DEPARTURE (OBSTACLE)

OAKLAND CENTER
127.95 316.1
UNICOM 122.8 (CTAF)
AWOS-3 118.0



TAKE-OFF MINIMUMS:

RWYS 10, 19: NA - OBSTACLES

RWY 1: STANDARD with minimum climb of 415' per NM to 11,500', or 3300-3 for climb in visual conditions.

RWY 28: STANDARD with minimum climb of 510' per NM to 9,500', or 3300-3 for climb in visual conditions.

TAKE-OFF OBSTACLES:

Rwy 1: Trees beginning 127' from DER, 175' left of centerline, up to 35' AGL/5921' MSL, trees beginning 360' from DER, 163' right of centerline, up to 39' AGL/5925' MSL.

Rwy 28: Trees beginning 679' from DER, 285' left of centerline, up to 96' AGL/5997' MSL, trees beginning 208' from DER, 392' right of centerline, up to 70' AGL/5971' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climbing left turn to 11,500' via heading 275° and SWR R-002 to TRUCK INT, thence..., or, climb in visual conditions to cross Truckee-Tahoe Airport heading 290° at or above 9100', then proceed on SWR R-002 to TRUCK INT, thence...

TAKE-OFF RUNWAY 28: Climbing right turn to 11,500' via heading 320° and SWR R-002 to TRUCK INT, thence..., or, climb in visual conditions to cross Truckee-Tahoe Airport heading 290° at or above 9100', then proceed on SWR R-002 to TRUCK INT, thence...

...Cross TRUCK INT at or above 11,500'. If required, continue climb-in-TRUCK INT holding pattern to cross TRUCK INT at or above 11,500'.

VOR/DME SWR 113.2 Chan 79	APP CRS 104°	Rwy Idg TDZE Apt Elev 5900	N/A N/A 5900
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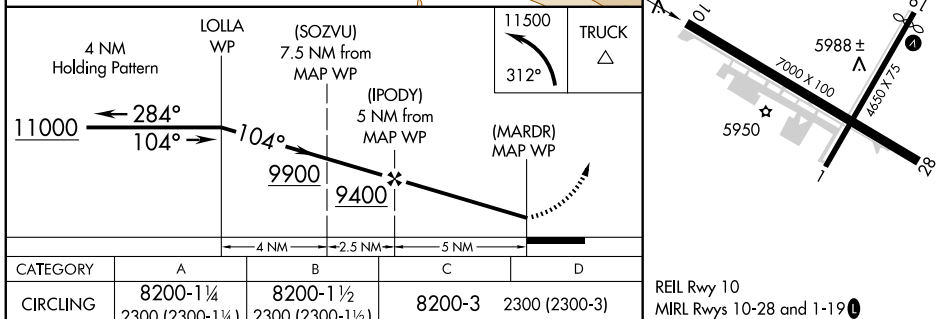
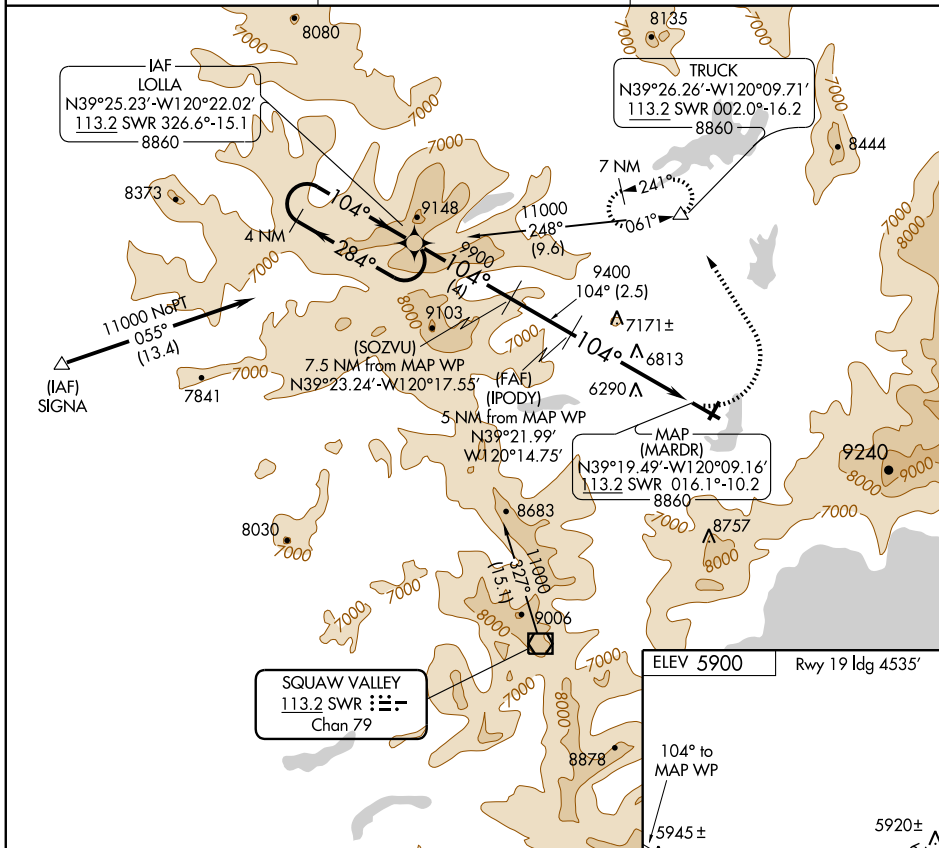
VOR/DME RNAV or GPS-A

TRUCKEE-TAHOE (TRK)

V If local altimeter setting not received, procedure not authorized.
NA

MISSED APPROACH: Climbing left turn to 11500 via track 312° to TRUCK WP and hold.

AWOS-3 118.0	OAKLAND CENTER 127.95 316.1	UNICOM 122.8 (CTAF)
------------------------	---------------------------------------	-------------------------------



VOR/DME VIS	APP CRS	Rwy Idg	3914
109.4	133°	TDZE	271
Chan 31		Apt Elev	271

▼

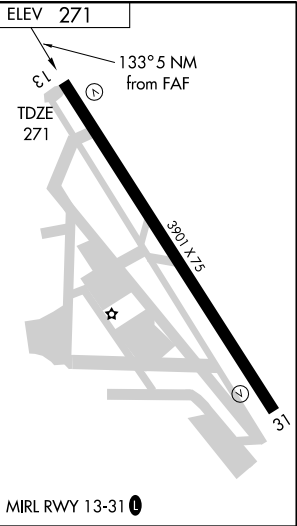
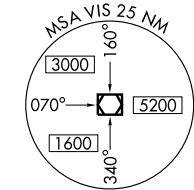
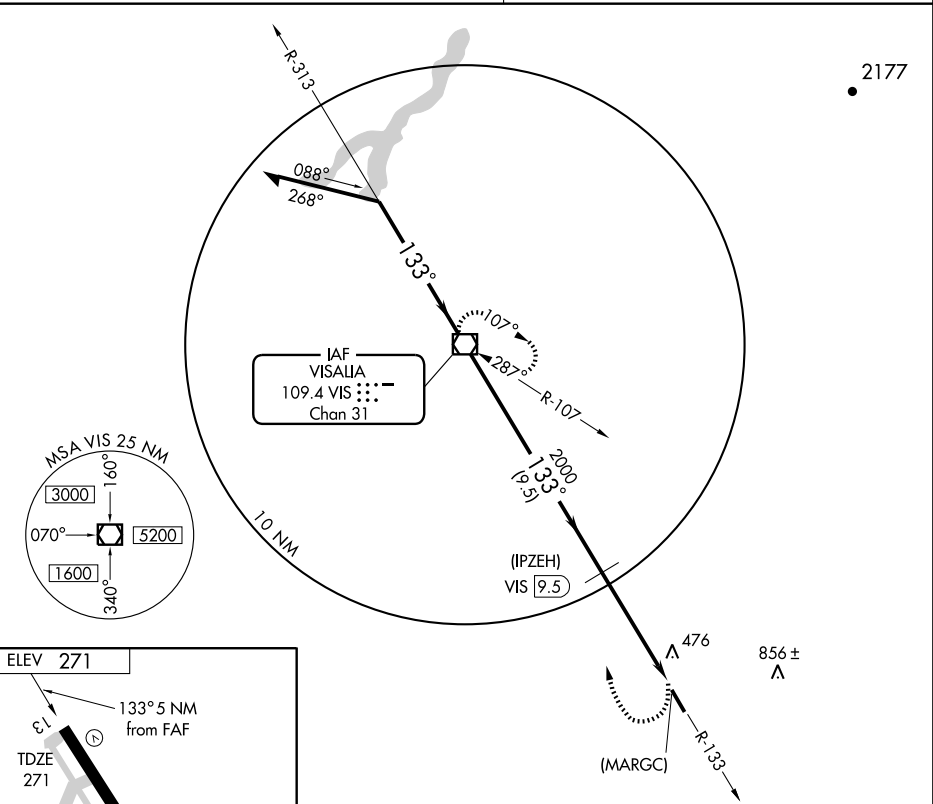
Use Visalia altimeter, if not received, use Fresno Air Terminal altimeter setting and increase all MDAs 200 feet.

▲

NA

MISSED APPROACH: Climbing right turn to 2000 direct VIS VOR/DME and hold.

FRESNO APP CON	UNICOM
118.5 268.7	122.7 (CTAF) 



Remain within 10 NM			
VOR/DME 313° 2000 133° 2000 2000 (IPZEH) VIS  9.5 2000 133° (MARGC) VIS  14.5			
9.5 NM 5 NM			
CATEGORY	A	B	C
S-13	920-1 649 (700-1)	920-1½ 649 (700-1½)	NA
CIRCLING	920-1 649 (700-1)	920-1½ 649 (700-1½)	NA

34°19'N

FUEL

34°18'N

HDG 140°
ARM/DE-ARM
/ EAST

UAS HANGER

ELEV
2018

HDG 140° LZ RED
ARM/DE-ARM
LZ GUNFIGHTER

M.60.091L

34°17'N

CACTI-FIVE DEPARTURE (CACTI5 • TNP)

TWENTYNINE PALMS, CALIFORNIA

SHL-3160 [USN]

ATIS 386.35
GND CON
363.35 41.7
TWENTYNINE PALMS TOWER
135.525 340.2
LOS ANGELES CENTER
128.15 285.6

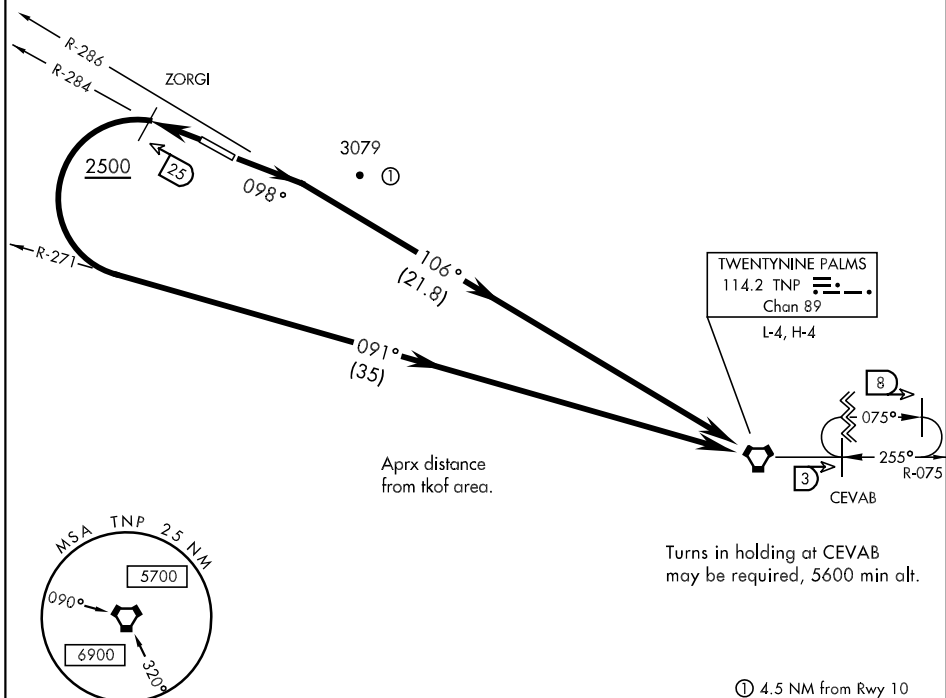
Rwy	Knots	60	120	180	240	300	360
* 10 (A)	V/V(fpm)	285	570	855	1140	1425	1710
** 10 (B)	V/V(fpm)	315	630	945	1260	1575	1890
† 28 (C)	V/V(fpm)	235	470	705	940	1175	1410

* Minimum ** Civil minimum † ATC Climb Rate

(A) to 3300

(B) to 3400

(C) to 2500



SW-3, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 10: Climb via heading 098° to intercept and proceed via TNP VORTAC R-286 to TNP.

TAKE-OFF RWY 28: Climb via TNP VORTAC R-284 to cross ZORGI at or above 2500. Then turn left to join and proceed via TNP R-271 to TNP.

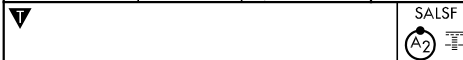
TACAN NXP
Chan 63

APCH CRS
296°

Rwy Idg	8015
TDZE	2022
Arpt Elev	2051

AL-3160 USN]

TWENTYNINE PALMS SELF (KNXP)

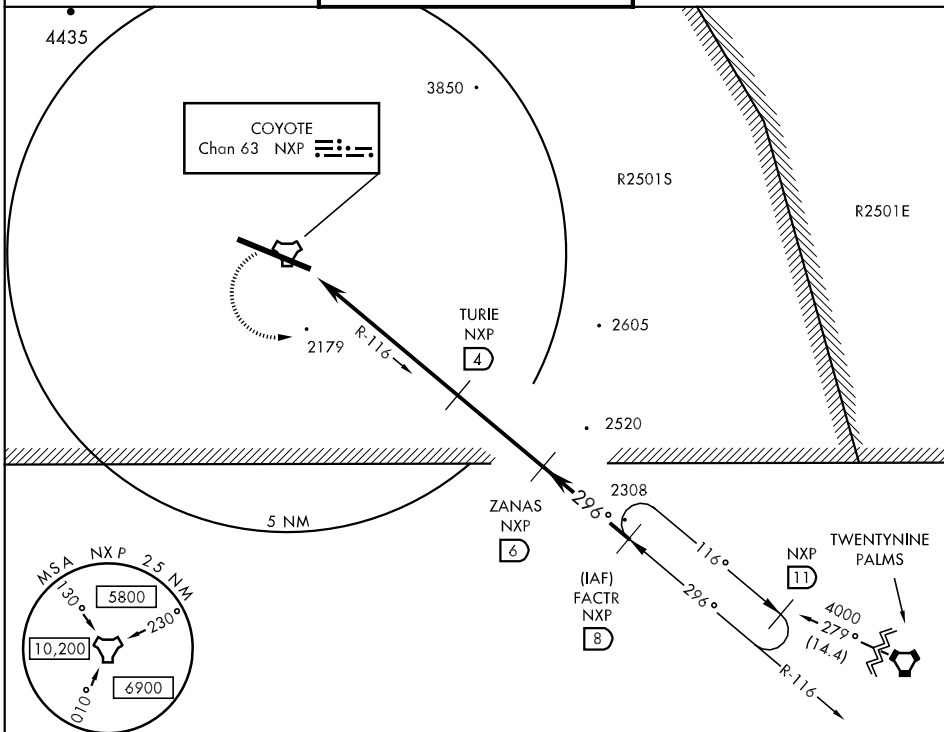


MISSED APPROACH: Climbing left turn to 4000 via NXP TACAN R-116 to FACTR and hold.

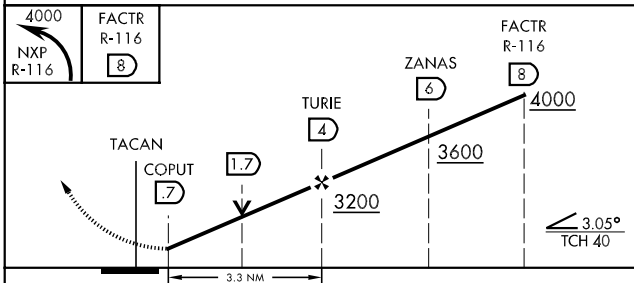
ATIS
386.35

TWENTYNINE PALMS TOWER
135.525 340.2

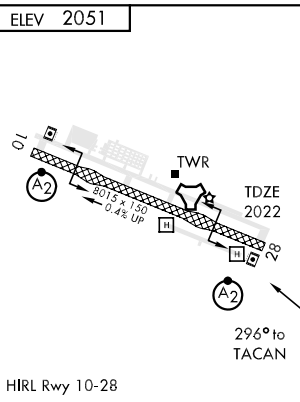
GND CON
363.35 41.7



EMERG SAFE ALT 100 NM 13,600



CATEGORY	COPTER
H-28	2440-½ 418 (400-½)
CIRCLING	NOT AUTHORIZED



TACAN NXP Chan 63	APCH CRS 286°	Rwy Idg 8015 TDZE 2022 Arpt Elev 2051
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JAL-3160 [USN]

TWENTYNINE PALMS SELF (KNXP)

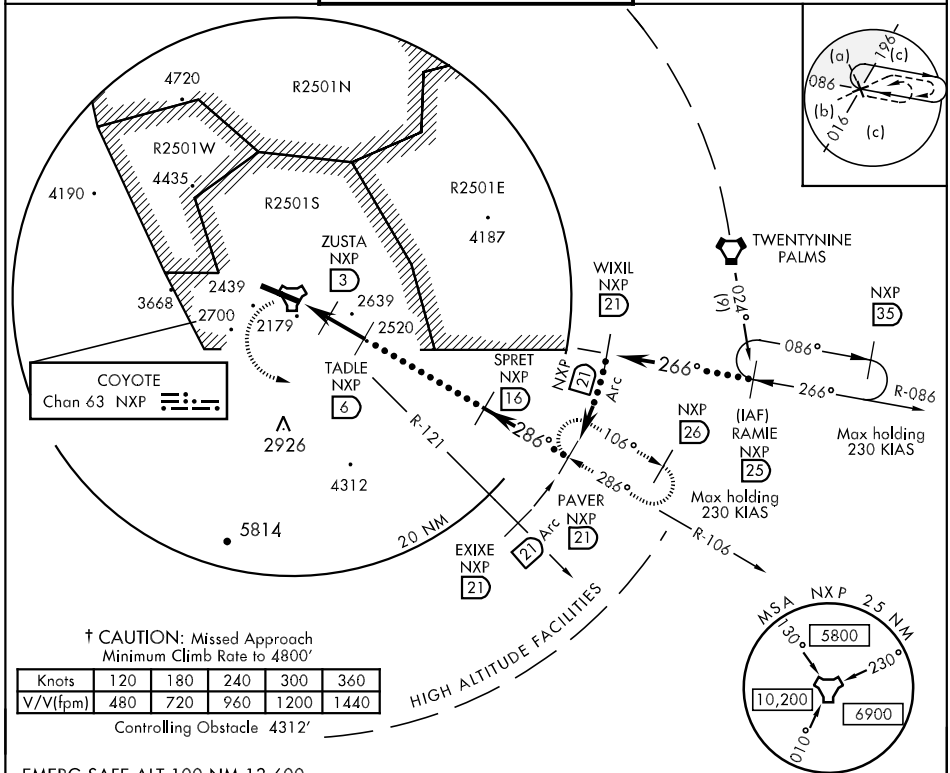
T * When ALS inop, increase vis CAT CD to 1 ¼ miles, CAT E vis to 1½ miles.
** Circling not authorized N of Rwy 10-28.

SALSF

A_2

† MISSED APPROACH: Climbing left turn to 6000 via NXP TACAN R-121 to EXIXE. Then Arc SE of NXP TACAN via NXP 21 DME Arc to PAVER and hold.

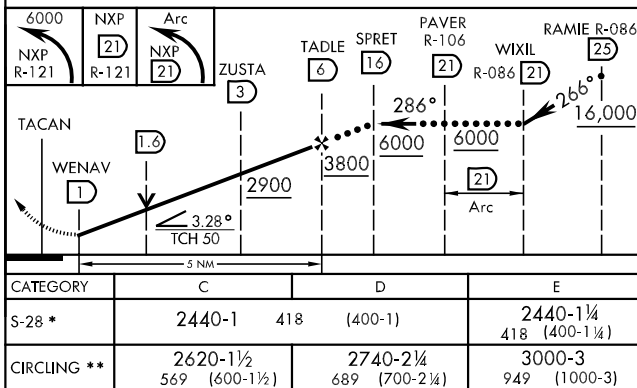
ATIS 386.35	PALMS TOWER 135.525 340.2	GND CON 363.35 41.7
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Knots	120	180	240	300	360
V/V(f _{pm})	480	720	960	1200	1440

Controlling Obstacle 4312

EMERG SAFE ALT 100 NM 13.600



TWENTYNINE PALMS, CALIFORNIA

34°17'N-116°10'W

TWENTYNINE PALMS SELF (KNXP)

08353

ULTAGANLBMAY00

VOR/DME TNP 114.2 Chan 89	APCH CRS 285°	Rwy Idg 8015 TDZE 2022 Arpt Elev 2051
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JAL-3160 [USN]

TWENTYNINE PALMS SELF (KNXP)

T * When ALS inop, increase vis CAT CDE to 3 miles.

SALSF

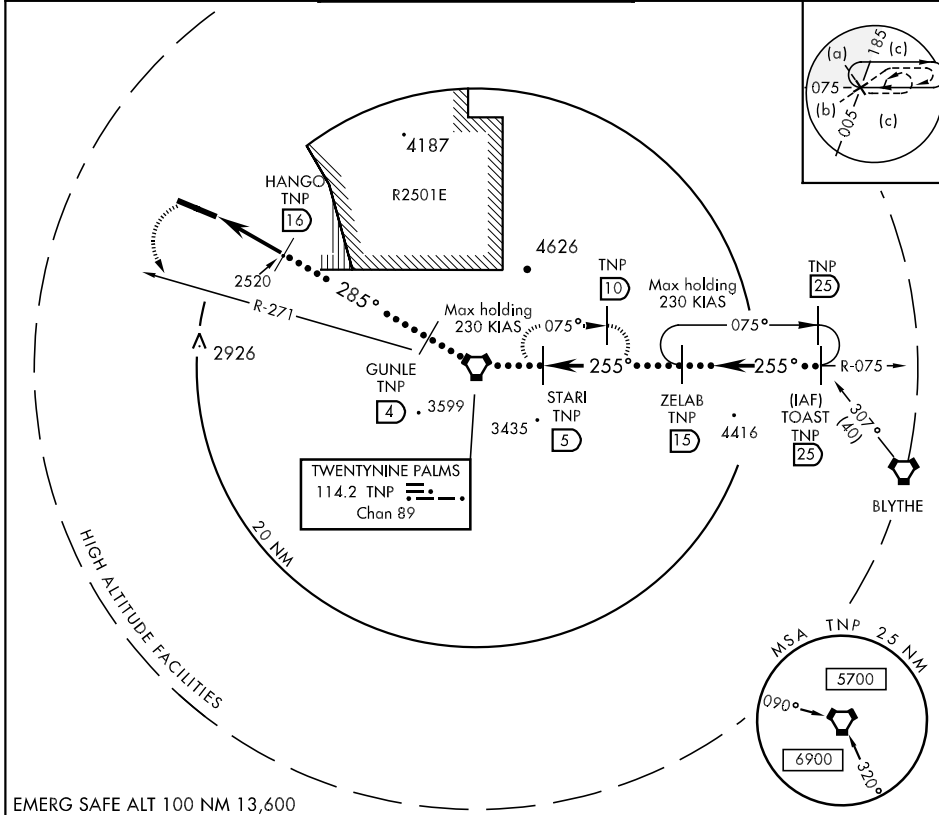
MISSED APPROACH: Climbing left turn to 6000 via TNP VORTAC R-271 direct TNP. Then via TNP R-075 to STARI and hold.

** Circling not authorized N of Rwy 10-28.

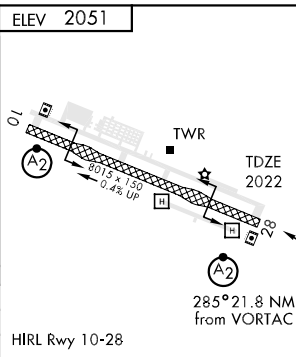
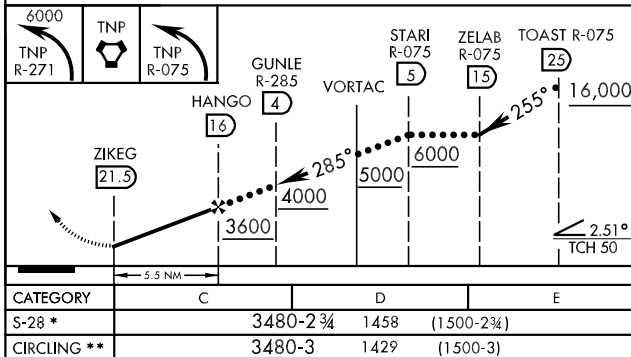
ATIS
386.35

PALMS TOWER
135.525 340.2

GND CON
363.35 41.7



EMERG SAFE ALT 100 NM 13,600



TWENTYNINE PALMS, CALIFORNIA

34° 17' N-116° 10' W

TWENTYNINE PALMS SELF (KNXP)

08353

TACAN NXP Chan 63	APCH CRS 286°	Rwy Idg TDZE Arpt Elev 8015 2022 2051
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AL-3160 [USN]

TWENTYNINE PALMS SELF (KNXP)

- * When ALS inop, increase vis CAT AB to 1 mile, CAT CD to 1¼ miles.
 ** Circling not authorized N of Rwy 10-28.



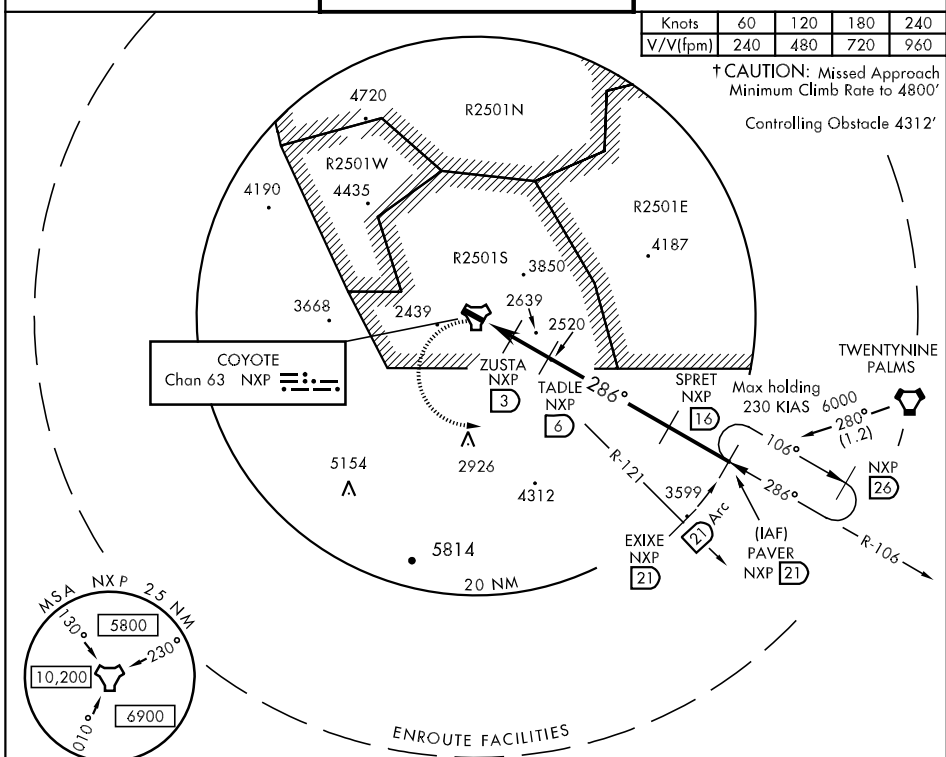
† MISSED APPROACH: Climbing left turn to 6000 via NXP TACAN R-121 to EXIXE. Then Arc SE of NXP via NXP 21 DME Arc to PAVER and hold.

ATIS 386.35	TWENTYNINE PALMS TOWER 135.525 340.2	GND CON 363.35 41.7
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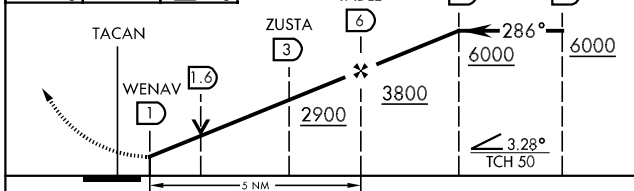
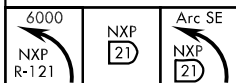
Knots	60	120	180	240
V/V(fpm)	240	480	720	960

† CAUTION: Missed Approach
Minimum Climb Rate to 4800'

Controlling Obstacle 4312'

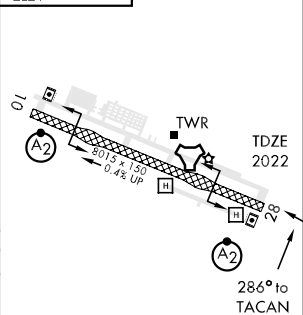


EMERG SAFE ALT 100 NM 13,600



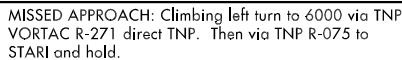
CATEGORY	A	B	C	D
S-28 *	2440-¾ 418 (400-¾)	2440-1 418 (400-1)	2440-1 418 (400-1)	2440-1 418 (400-1)
CIRCLING **	2580-1 529 (600-1)	2620-1½ 569 (600-1½)	2740-2¼ 689 (700-2¼)	2740-2¼ 689 (700-2¼)

ELEV 2051

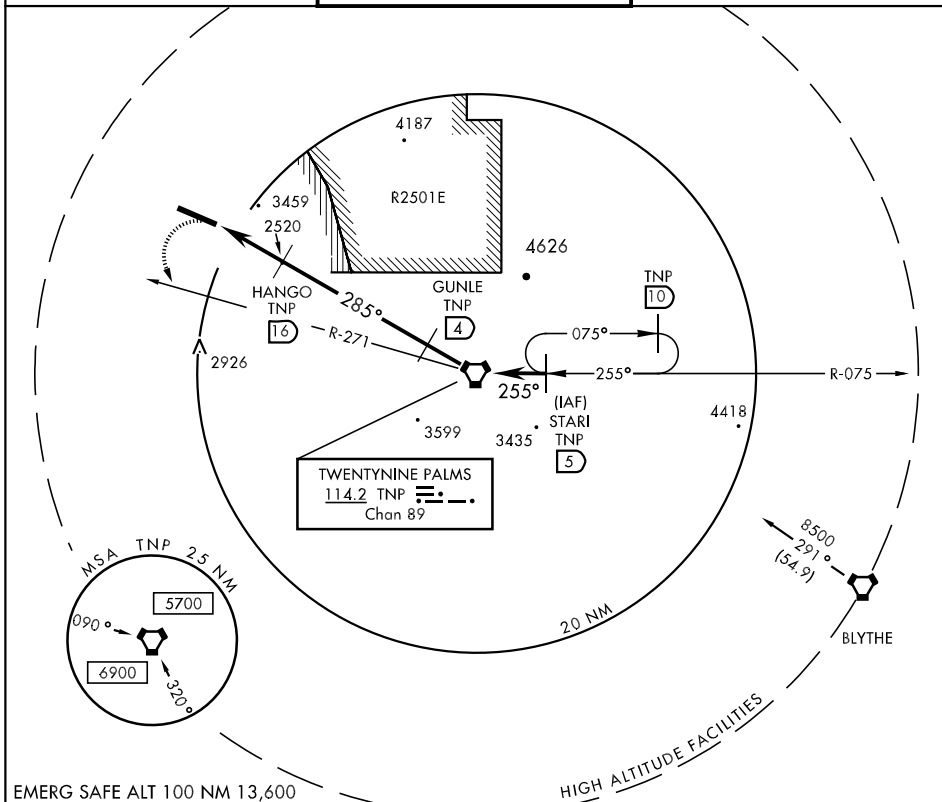


HIRL Rwy 10-28

TWENTYNINE PALMS SELF (KNXP)

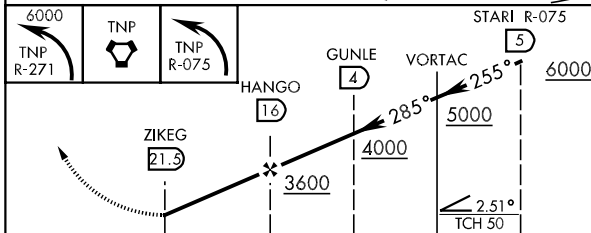


GND CON
363.35 41.7

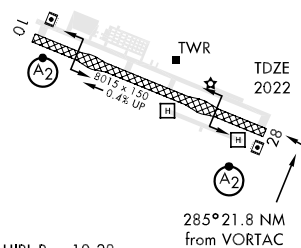


EMERG SAFE ALT 100 NM 13,600

HIGH ALTITUDE FACILITIES



ELEV 2051



285°21.8 NM
from VORTAC

HIRL Rwy 10-28

TWENTYNINE PALMS SELF (KNXP)

APP CRS
262°

Rwy Idg
5531

TDZE
1835

Apt Elev
1888

RNAV (GPS) RWY 26

TWENTYNINE PALMS (TNP)

▼

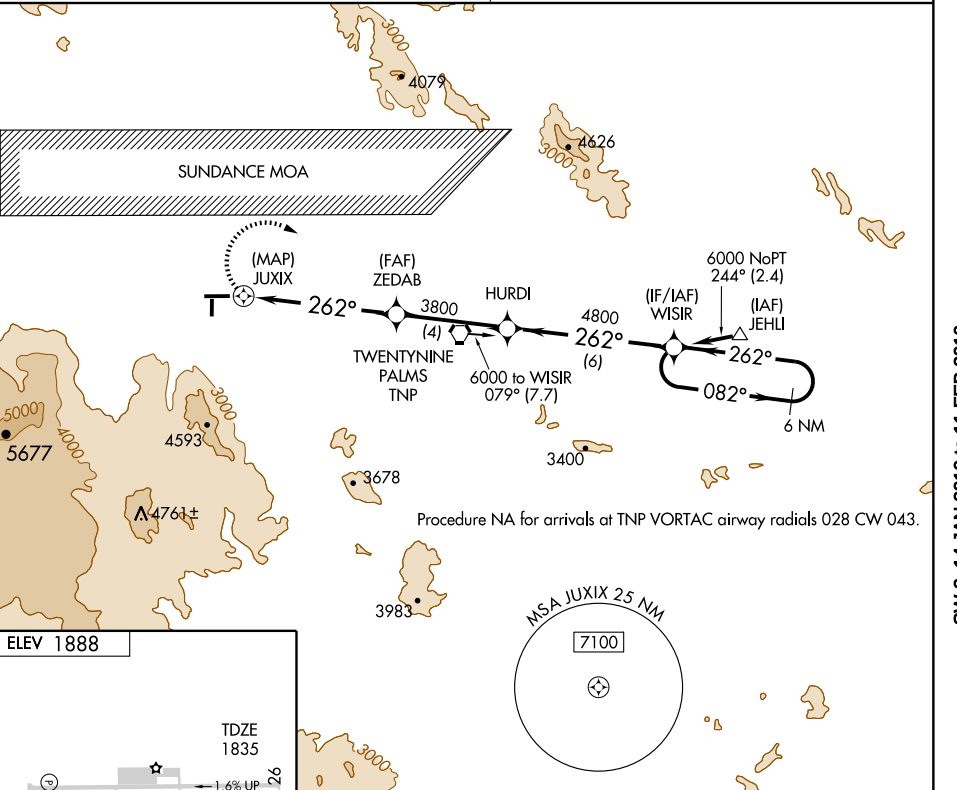
▲ NA

When Palm Springs Intl altimeter setting not received, procedure NA.
Circling NA south of Rwy 8-26. DME/DME RNP- 0.3 NA.
Use Palm Springs Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 6000 direct WISIR and hold.

LOS ANGELES CENTER
128.15 285.6

UNICOM
122.8 (CTAF) 0



ELEV 1888

TDZE 1835

5531 X 75

1919±

1.6% UP

0.9% UP

3797 X 50

35

REIL Rwy 8 and 26 0

MIRL Rwy 8-26 and 17-35 0

6000 WISIR

3800 ZEDAB

4800 HURDI

6000 WISIR

6 NM Holding Pattern

0.5 5.5 NM 4 NM 6 NM

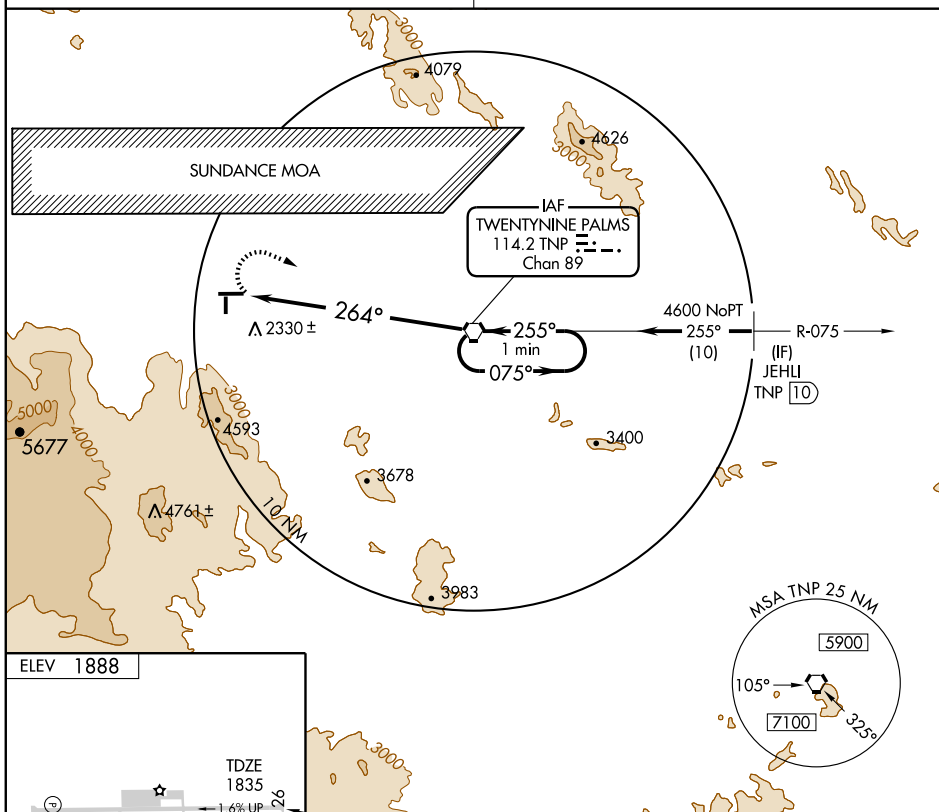
3.10° TCH 40

082° 262°

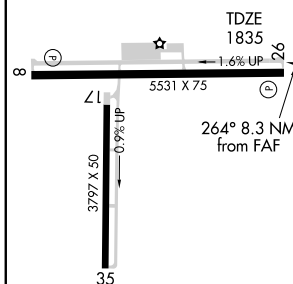
CATEGORY	A	B	C	D
LNNAV MDA	3040-1¼ 1205 (1200-1¼)	3040-1½ 1205 (1200-1½)	NA	
CIRCLING	3240-1¼ 1352 (1400-1¼)	3240-1½ 1352 (1400-1½)	NA	

VOR RWY 26
TWENTYNINE PALMS (TNP)

MISSED APPROACH: Climbing right turn to 5900 direct TNP VORTAC and hold, continue climb-in-hold to 5900.

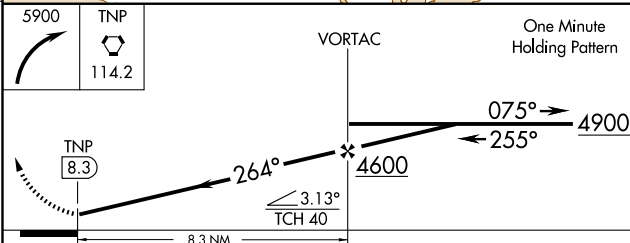
UN|COM
122.8 (CTAF) **L**

ELEV 1888



REIL Rwy 8 and 26 **L**
MIRL Rwy 8-26 and 17-35 **L**

FAF to MAP 8.3 NM					
Knots	60	90	120	150	180
Min:Sec	8:18	5:32	4:09	3:19	2:4



CATEGORY	A	B	C	D
S-26	3580-1¼ 1745 (1700-1¼)	3580-1½ 1745 (1700-1½)	NA	
CIRCLING	3580-1¼ 1692 (1700-1¼)	3580-1½ 1692 (1700-1½)	NA	

LOC/DME I-UKI 109.1 Chan 28	APP CRS 151°	Rwy Idg 4415 TDZE 614 Apt Elev 614
---	------------------------	---

LOC RWY 15
UKIAH MUNI (UKI)



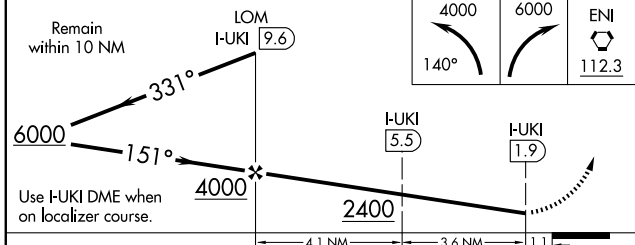
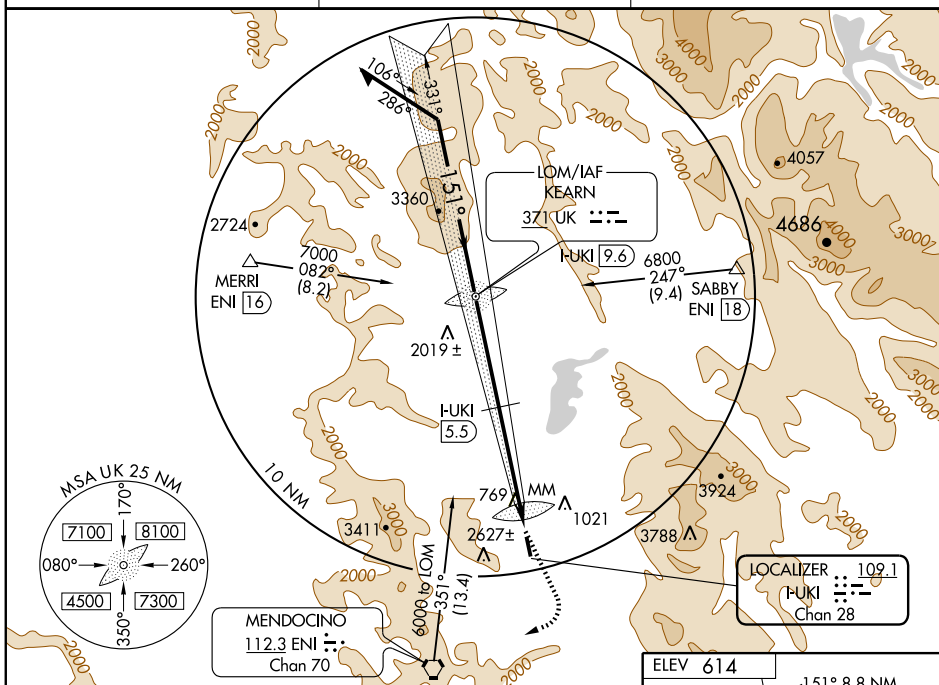
Circling NA west of Rwy 15-33.

MISSED APPROACH: Climbing left turn to 4000 via heading 140°, then climbing right turn to 6000 direct ENI VORTAC.

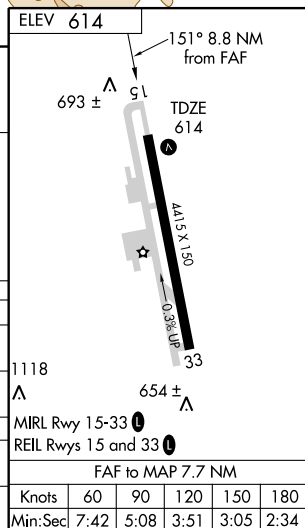
ASOS
119,275

OAKLAND CENTER
127.8 353.5

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D
S-15	2400-1¼ 1786 (1800-1¼)	2400-1½ 1786 (1800-1½)	2400-3	1786 (1800-3)
CIRCLING	2400-1¼ 1786 (1800-1¼)	2400-1½ 1786 (1800-1½)	2400-3	1786 (1800-3)
DME MINIMUMS				
S-15	1720-1¼ 1106 (1200-1¼)	1720-1½ 1106 (1200-1½)	1720-3	1106 (1200-3)
CIRCLING	1720-1¼ 1106 (1200-1¼)	1720-1½ 1106 (1200-1½)	1720-3	1106 (1200-3)



APP CRS	Rwy Idg	N/A
331°	TDZE	N/A
	Apt Elev	614

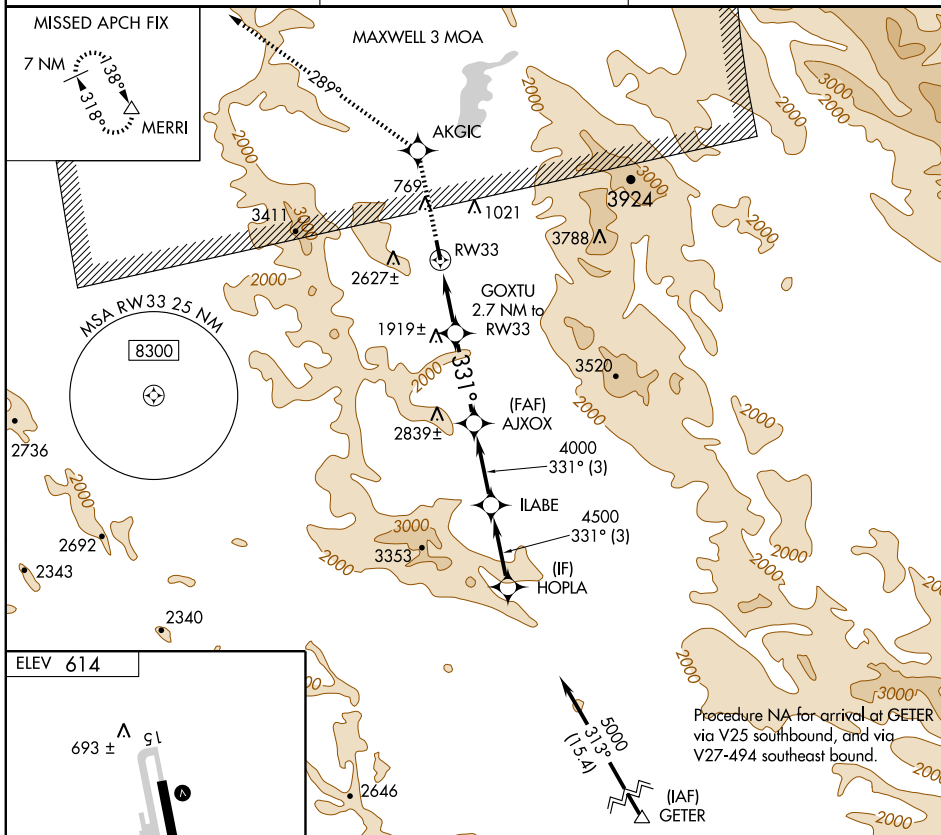
RNAV (GPS) -B

UKIAH MUNI (UKI)

▼ Circling NA west of Rwy 15-33. DME/DME RNP- 0.3 NA.
▲ When local alimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6700 direct
 AKGIC and via track 289° to MERRI and
 hold, continue climb-in-hold to 6700.

ASOS 119.275	OAKLAND CENTER 127.8 353.5	UNICOM 123.0 (CTAF) 0
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6700	AKGIC	trk 289°	MERRI	HOPLA
↑	✦		△	
GOXTU 2.7 NM to RW33				
RW33 $\triangleleft$ 7.49° TCH 40				
AJAX				
ILABE				
HOPLA				
331° 5000				
4000				
4500				
2800				
2.7 NM 3.3 NM 3 NM				
CATEGORY	A	B	C	D
CIRCLING	2540-1¼ 1926 (2000-1¼)	2540-1½ 1926 (2000-1½)	2540-3	1926 (2000-3)

VORTAC ENI	APP CRS	Rwy Idg TDZE	N/A
112.3	022°	Apt Elev	N/A
Chan 70			614

VOR-A

UKIAH MUNI (UKI)

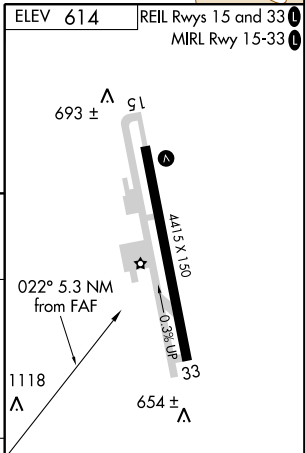
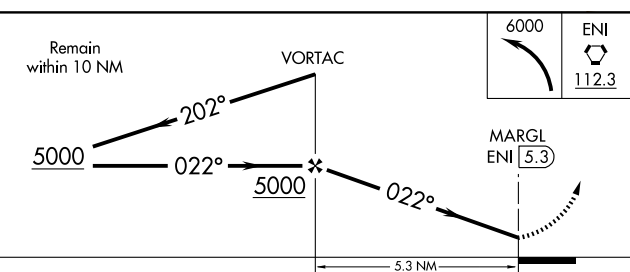
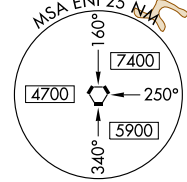
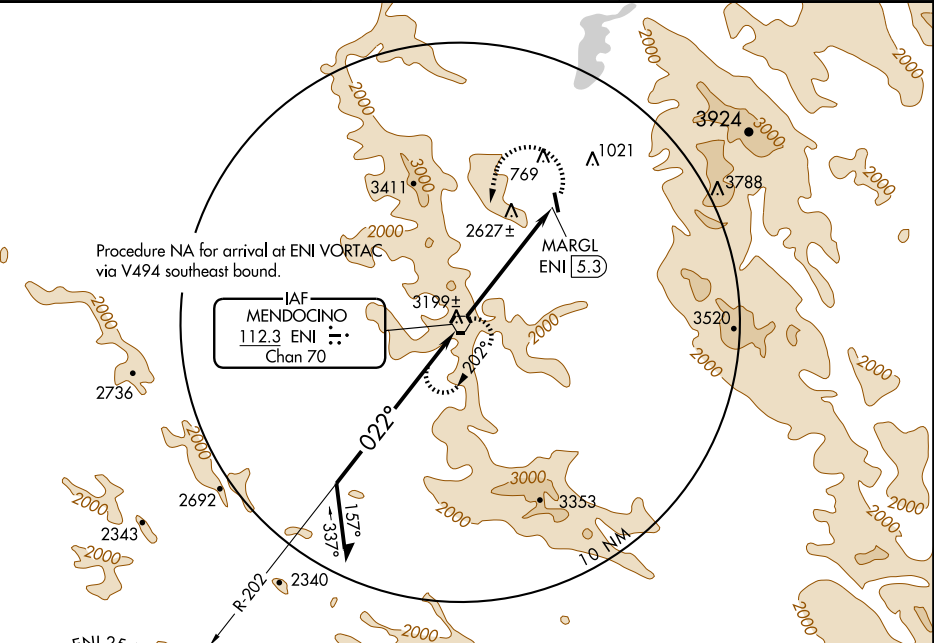
▼

▲

Circling NA west of Rwy 15-33.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 6000 direct ENI VORTAC and hold, continue climb-in-hold to 6000.

ASOS 119.275	OAKLAND CENTER 127.8 353.5	UNICOM 123.0 (CTAF) 0
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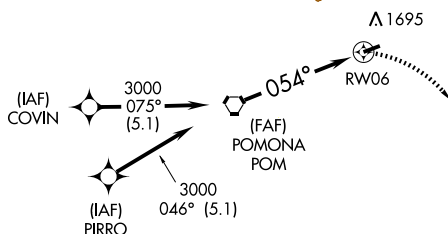
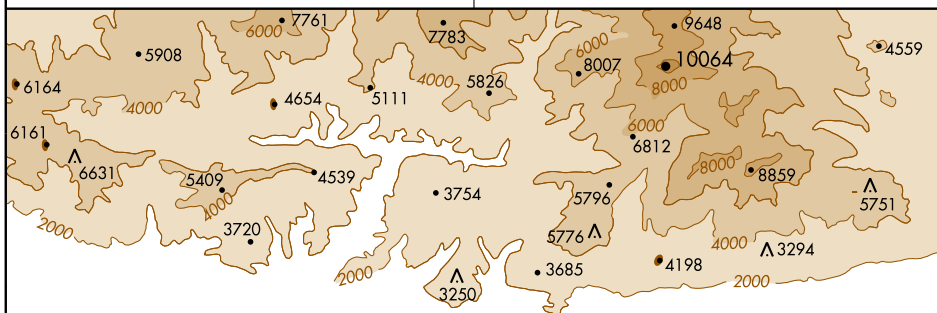


CATEGORY	A	B	C	D	FAF to MAP 5.3 NM					
CIRCLING	3400-1¼ 2786 (2800-1¼)	3400-1½ 2786 (2800-1½)	3400-3	2786 (2800-3)	Knots	60	90	120	150	180
					Min:Sec	5:18	3:32	2:39	2:07	1:46

SW-2, 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climbing right turn to 4000 direct PDZ VORTAC and hold.

UNICOM
123.0 (CTAF) **L**



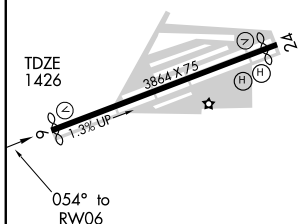
MSA RW06 25 NM

11100

4 NM

PARADISE
PD7

ELEV 1439



VORTAC

VGS1 and descent angles not coincident.

4000

PDZ

300
Procedure
Turn
NA

054

RW06

1

— 5 NM

				
CATEGORY	A	B	C	D
S-6	1980-1	554 (600-1)	1980-1½ 554 (600-1½)	NA
CIRCLING	1980-1	541 (600-1)	1980-1½ 541 (600-1½)	NA

MIRL Rwy 6-24 **L**

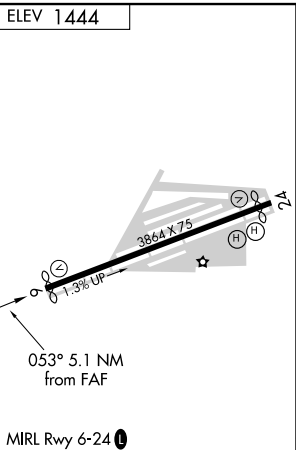
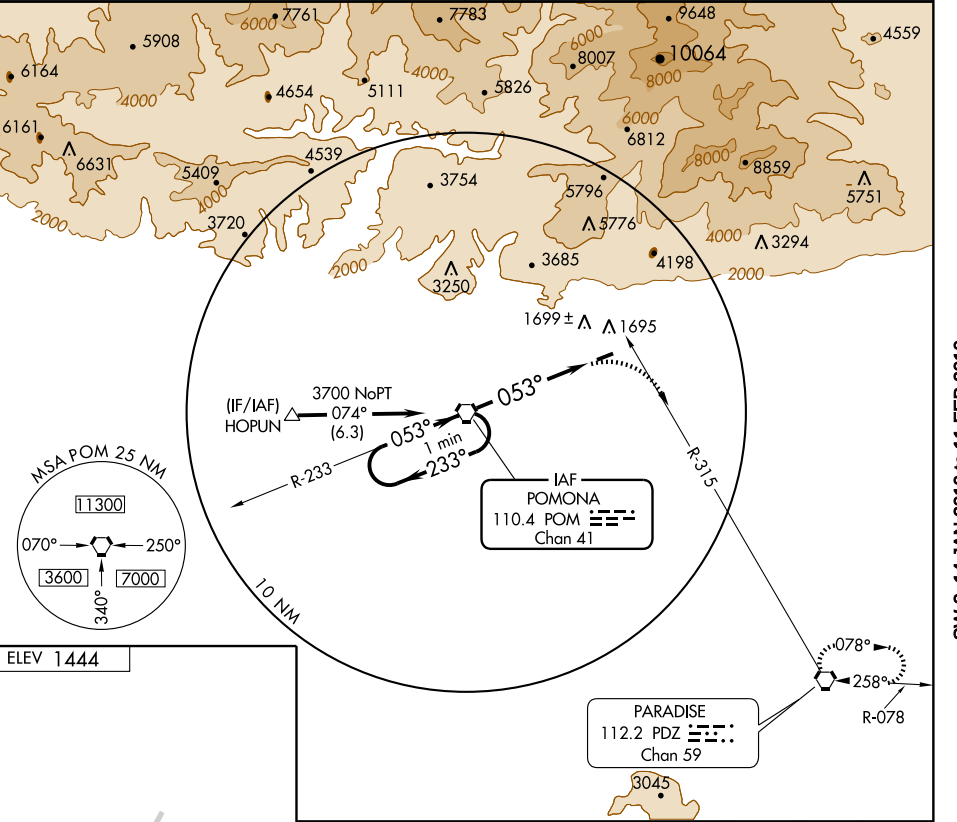
NA

Circling NA north of Rwy 6-24.
Use Ontario altimeter setting.

MISSED APPROACH: Climbing right turn to 4000 via heading 105° and PDZ R-315 to PDZ VORTAC and hold.

SOCAL APP CON
125.5 349.0

UNICOM
123.0 (CTAF)



FAF to MAP 5.1 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2240-1	2240-1¼	2240-2¼	NA
Min:Sec	5:06	3:24	2:33	2:02	1:42		796 (800-1)	796 (800-1¼)	796 (800-1¼)	

▼

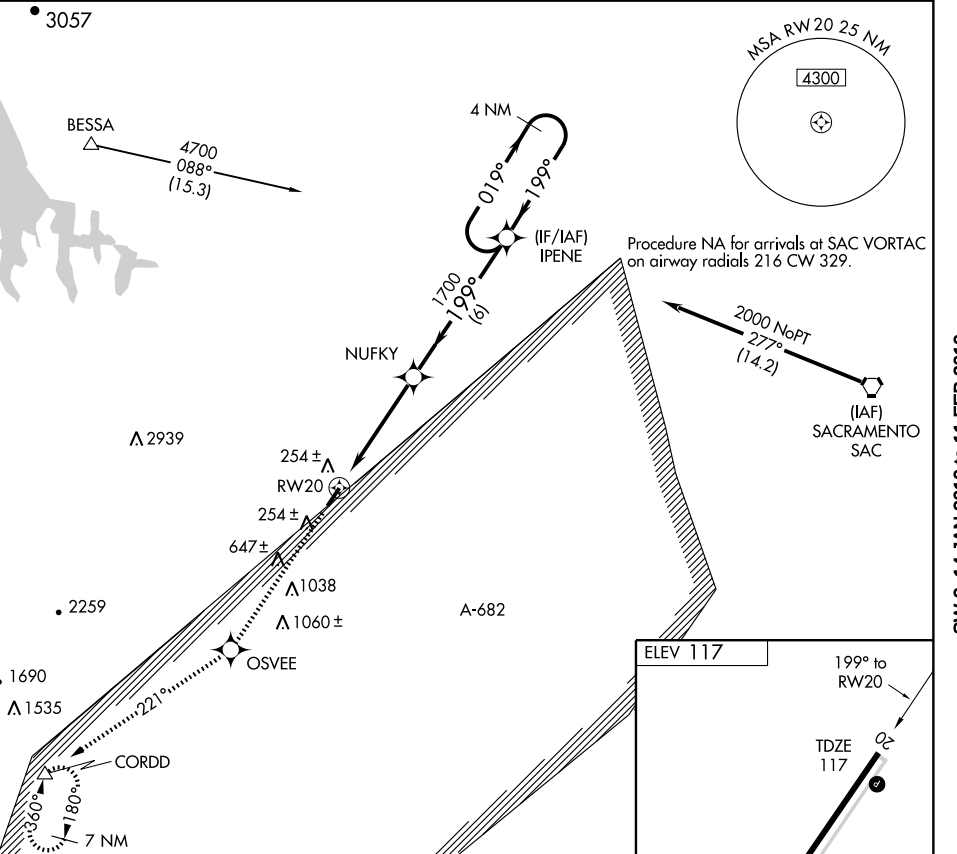
▲

⚠

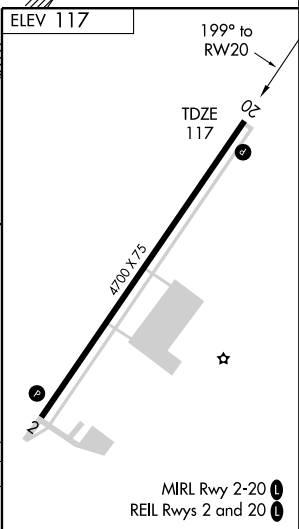
DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Davis University
altimeter setting and increase DA to 650 feet.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6200 direct OSVEE and
via 221° track to CORDD and hold, continue climb-in-
hold to 6200.

ASOS 134.75	TRAVIS APP CON 128.4 291.0	UNICOM 122.7 (CTAF) 0
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6200 ↑		OSVEE ✦		221° track		CORDD △		VGSi and RNAV glidepath not coincident.			
								IPENE		4 NM Holding Pattern	
RW20		NUFKY		1700		199°		019°		2000	
						1700				GS 3.00° TCH 40	
		4.8 NM		6 NM							
CATEGORY		A		B		C		D			
LPV DA		614-1¾ 497 (500-1¾)									



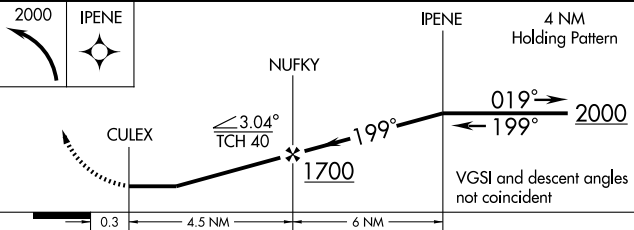
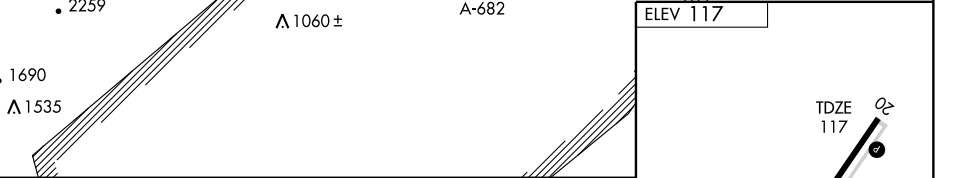
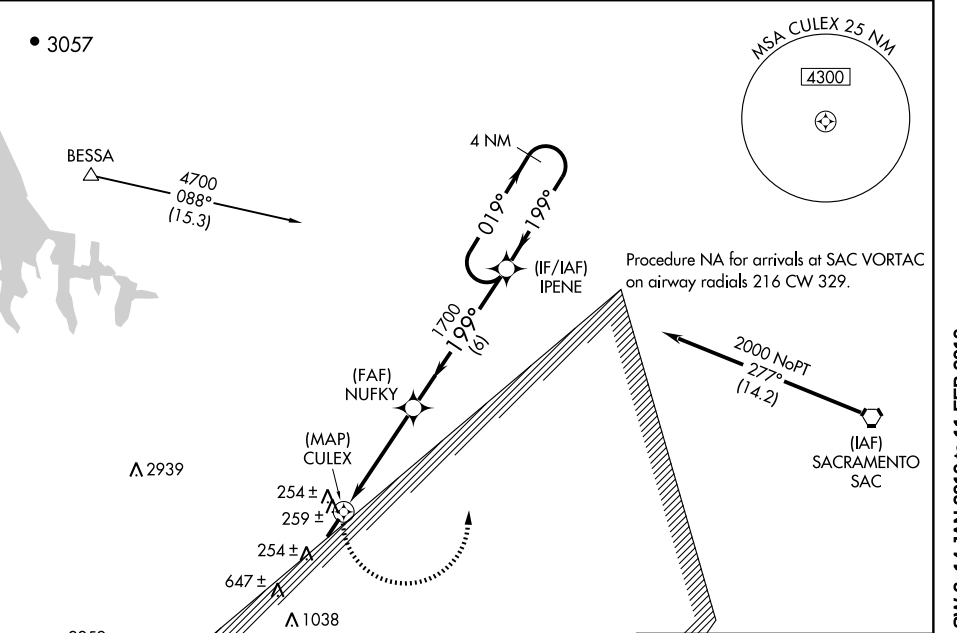
SW-2, 14 JAN 2010 to 11 FEB 2010

⚠

Circling NA west of Rwy 2-20. DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Davis University
altimeter setting and increase all MDAs 40 feet.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 2000 direct
IPENE and hold.

ASOS 134.75	TRAVIS APP CON 128.4 291.0	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	520-1 403 (500-1)		520-1¼ 403 (500-1¼)	NA
CIRCLING	560-1 443 (500-1)	580-1 463 (500-1)	580-1½ 463 (500-1½)	NA

MIRL Rwy 2-20 0

REIL Rws 2 and 20 0

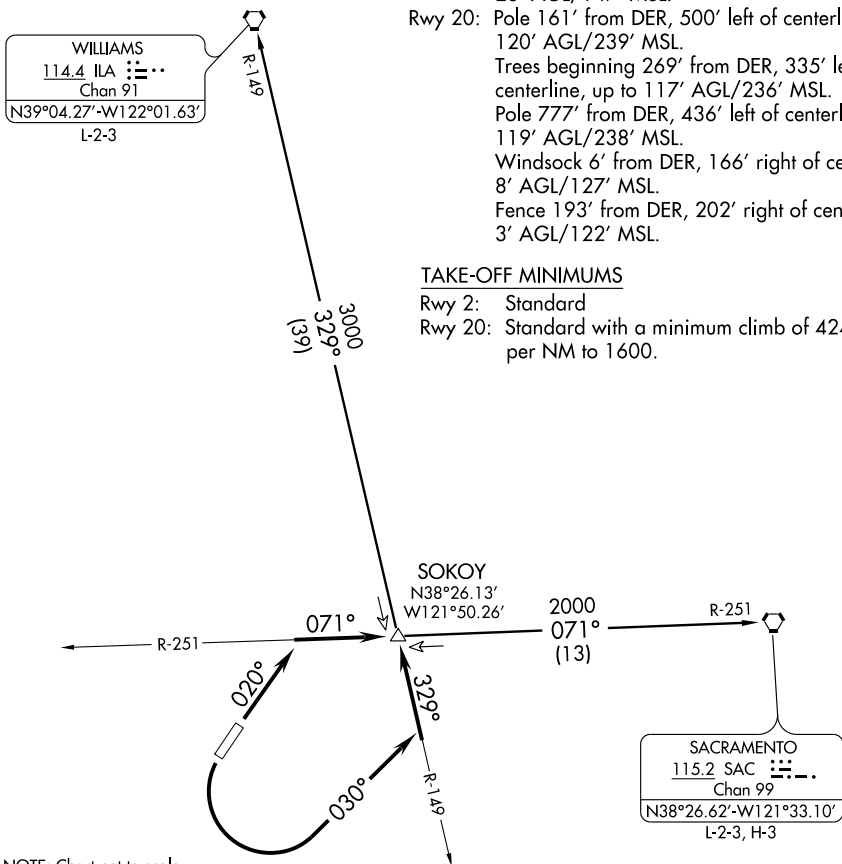
TRAVIS DEP CON
128.4 291.0

TAKE-OFF OBSTACLE NOTES

- Rwy 2: Trees beginning 222' from DER, 514' left of centerline, up to 106' AGL/225' MSL.
Light pole 337' from DER, 534' left of centerline, 28' AGL/147' MSL.
- Rwy 20: Pole 161' from DER, 500' left of centerline, 120' AGL/239' MSL.
Trees beginning 269' from DER, 335' left of centerline, up to 117' AGL/236' MSL.
Pole 777' from DER, 436' left of centerline, 119' AGL/238' MSL.
Windsock 6' from DER, 166' right of centerline, 8' AGL/127' MSL.
Fence 193' from DER, 202' right of centerline, 3' AGL/122' MSL.

TAKE-OFF MINIMUMS

- Rwy 2: Standard
- Rwy 20: Standard with a minimum climb of 424' per NM to 1600.



SW-2, 14 JAN 2010 to 11 FEB 2010

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climb via heading 020°, intercept SAC R-251 to SOKOY INT/ SAC 13 DME.

TAKE-OFF RUNWAY 20: Turn left heading 030°, intercept ILA R-149 to SOKOY INT/ ILA 39 DME.

SACRAMENTO TRANSITION (SOKOY2.SAC): From over SOKOY INT via SAC R-251 to SAC VORTAC.

WILLIAMS TRANSITION (SOKOY2.ILA): From over SOKOY INT via ILA R-149 to ILA VORTAC.

VORTAC SAC 115.2 Chan 99	APP CRS 241°	Rwy Idg TDZE Apt Elev N/A N/A 117
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VOR/DME-A

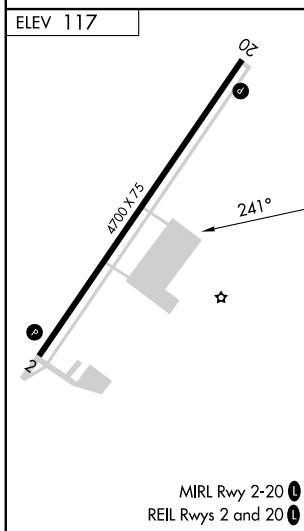
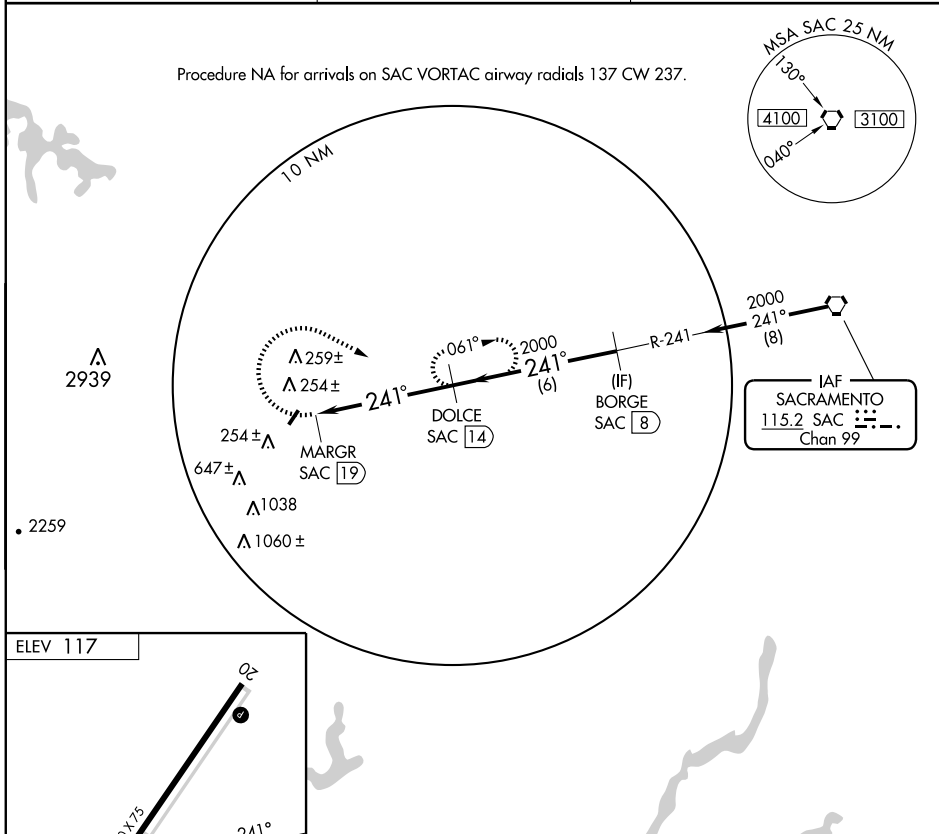
VACAVILLE/NUT TREE (VCB)

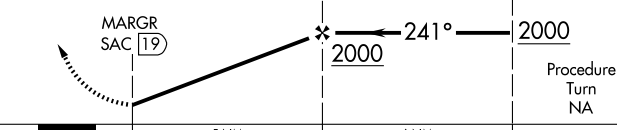
T Circling NA west of Rwy 2-20.
A When local altimeter setting not received, use Travis AFB altimeter setting and increase all MDA 40 feet and Cat C visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 2000 via heading 100° and SAC R-241 to DOLCE/14 DME and hold.

ASOS 134.75	TRAVIS APP CON 128.4 291.0	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrivals on SAC VORTAC airway radials 137 CW 237.

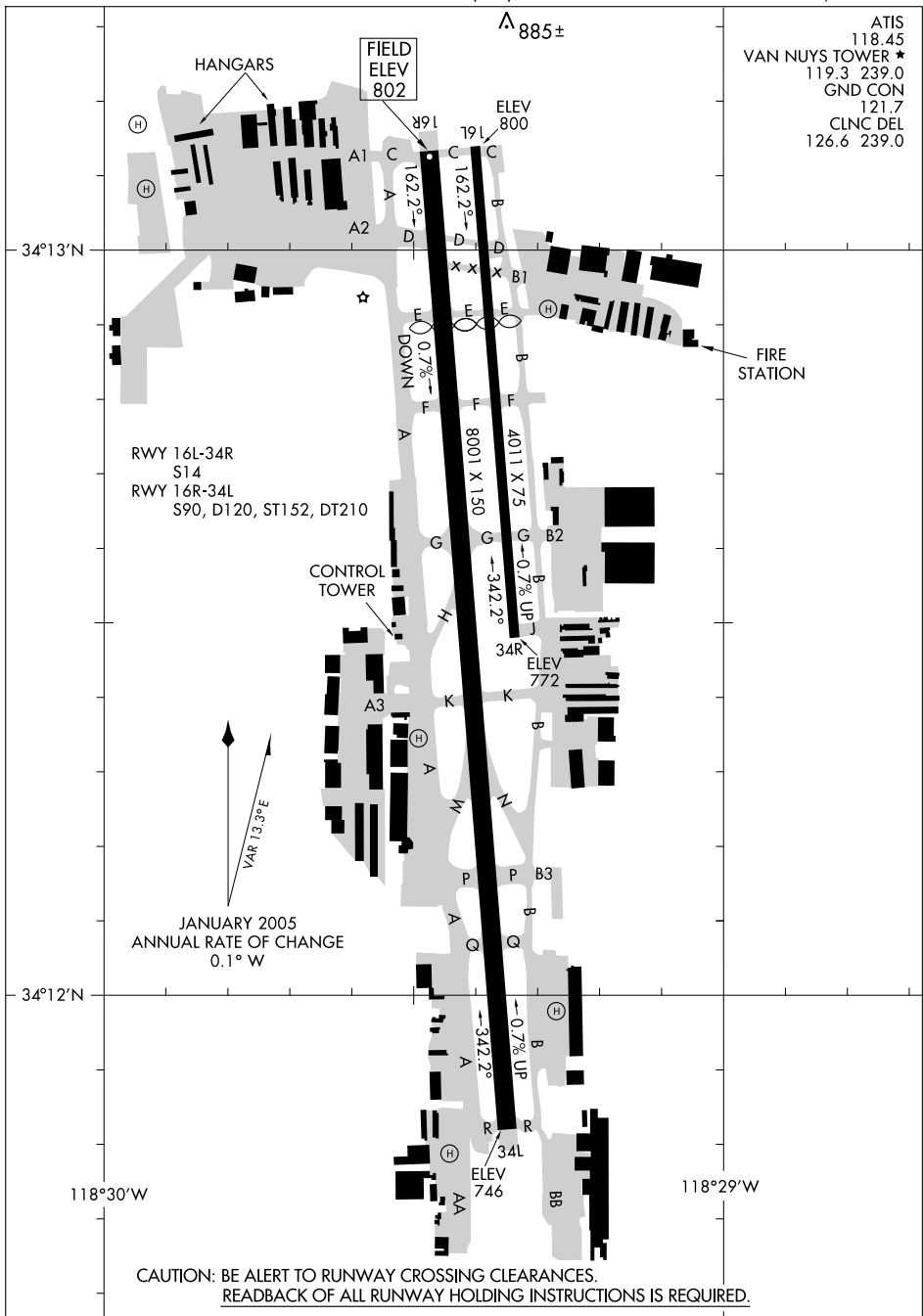


2000  SAC R-241 115.2	DOLCE SAC 14	DOLCE SAC 14	BORGE SAC 8	
MARGR SAC 19				
CATEGORY	A	B	C	D
CIRCLING	760-1 643 (700-1)		760-1 ³ / ₄ 643 (700-1 ³ / ₄)	NA

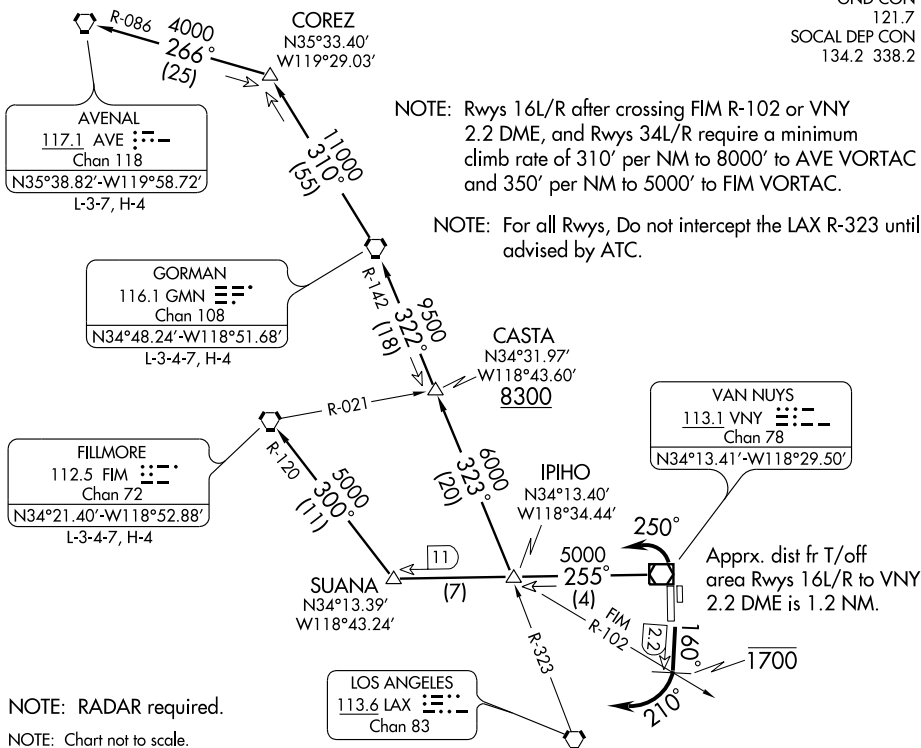
AIRPORT DIAGRAM

AL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA



ATIS 118.45
CLNC DEL
126.6 239.0
GND CON
121.7
SOCAL DEP CON
134.2 338.2



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Fly heading 160°, cross 2.2 DME at or below 1700'. Then turn right heading 210° for vectors to VNY R-255 and GMN R-142. Then via (transition) or (assigned route).

TAKE-OFF RUNWAYS 34L/R: Turn left heading 250° after departure end of runway for vectors to VNY R-255 and GMN R-142. Then via (transition) or (assigned route).

LOST COMMUNICATIONS: If not in contact with departure control within 3 NM: Rws 16L/R, intercept the LAX R-323. Then as assigned; Rws 34L/R, intercept the VNY R-255. Then as assigned.

AVENAL TRANSITION (CNOG8.AVE): Proceed along the VNY R-255 to intercept and proceed along the LAX R-323 and GMN R-142 to GMN VORTAC. Then via the GMN R-310 and AVE R-086 to AVE VORTAC. Cross CASTA INT at or above 8300'.

FILLMORE TRANSITION (CNOG8.FIM): Proceed via the VNY R-255 and FIM R-120 to FIM VORTAC.

GORMAN TRANSITION (CNOG8.GMN): Proceed via the VNY R-255 to intercept and proceed via the LAX R-323 and GMN R-142 to GMN VORTAC. Cross CASTA INT at or above 8300'.

45 — 115.7



ARRIVAL DESCRIPTION

AVENAL TRANSITION (AVE.FERN5): From over AVE VORTAC via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

DERBB TRANSITION (DERBB.FERN5): From over DERBB INT via AVE R-129 and FIM R-310 to FIM VORTAC. Thence....

FELLOWS TRANSITION (FLW.FERN5): From over FLW VORTAC via FLW R-116 and FIM R-297 to FIM VORTAC. Thence....

OHIGH TRANSITION (OHIGH.FERN5): From over OHIGH INT via FIM R-267 to FIM VORTAC. Thence....

....From over FIM VORTAC:

LANDING BOB HOPE: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect ILS RWY 8.

LANDING SANTA MONICA MUNI: Via FIM R-097 and VNY R-277 to VNY VOR/DME; then via VNY R-095 to DARTS INT. Expect VOR-A approach.

LANDING VAN NUYS RWY 16: Via FIM R-053 to UMBER INT, then via I-VNY localizer. Expect ILS RWY 16R.

LANDING VAN NUYS RWY 34: Via FIM R-136 to TOAKS INT, then via I-BUR localizer. Expect LDA-C; circle to land RWY 34L.

GLENDAL NINE DEPARTURE

SL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

ATIS 118.45
CLNC DEL
126.6 239.0
GND CON
121.7
SOCAL DEP CON
124.6 298.85

TAKE-OFF MINIMUMS

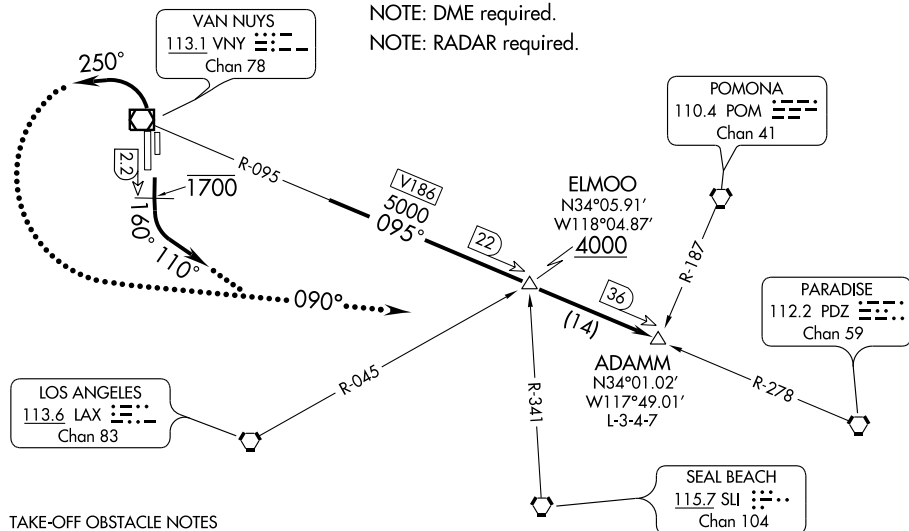
Rwy 16L, Standard with the following minimum climb requirements:
ATC climb of 300' feet per NM to 3800, obstacle climb of 240' per NM to 2000.

Rwy 16R, Standard with the following minimum climb requirements:
ATC climb of 300' feet per NM to 3800, obstacle climb of 280' per NM to 2300.

Rwy 34L, 34R, standard with minimum climb of 480' per NM to 4200.

NOTE: DME required.

NOTE: RADAR required.



TAKE-OFF OBSTACLE NOTES

RWY 16L, Light on hangar 713' from DER, 361' left of centerline, 27' AGL/798' MSL.

RWY 16R, Hangar 209' from DER, 516' right of centerline, 9' AGL/755' MSL.
Flagpole 570' from DER, 549' right of centerline, 15' AGL/761' MSL.
Building 941' from DER, 599' left of centerline, 28' AGL/774' MSL.
Multiple trees beginning 1129' from DER, left and right of centerline, up to 72 AGL/818' MSL.

RWY 34L, Blast fence 169' from DER, 405' left of centerline, 10' AGL/812' MSL.
Obstruction light on blast fence, 241' from DER, 195' left of centerline, 17' AGL/819' MSL.
Multiple trees beginning 325' from DER, 549' right of centerline, up to 119' AGL/921' MSL.
Railroad 305' from DER, 369' right of centerline, 30' AGL/832' MSL.
Building 424' from DER, 589' right of centerline, 29' AGL/831' MSL.
Antenna on building 450' from DER, 462' left of centerline, 15' AGL/817' MSL.
Pole 1376' from DER, 779' left of centerline, 68' AGL/870' MSL.

RWY 34R, Railroad 305' from DER, 5' right of centerline, 33' AGL/832' MSL.
Multiple trees beginning 325' from DER, 174' right of centerline, up to 122' AGL/921' MSL.
Building 424' from DER, 214' right of centerline, 32' AGL/831' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Climb via heading 160° to cross VNY 2.2 DME at or below 1700'. Then climbing left turn heading 110° for vectors to VNY R-095 to ADAMM INT. Then via (assigned route).

TAKE-OFF RUNWAYS 34L/R: Climbing left turn via heading 250° for vectors to VNY R-095 to ADAMM INT. Then via (assigned route).

LOST COMMUNICATIONS: If not in contact with departure control within 3 NM, turn left heading 090° to intercept VNY R-095 to ADAMM INT, maintain 5000 or as assigned.

ILS RWY 16R

VAN NUYS (VNY)

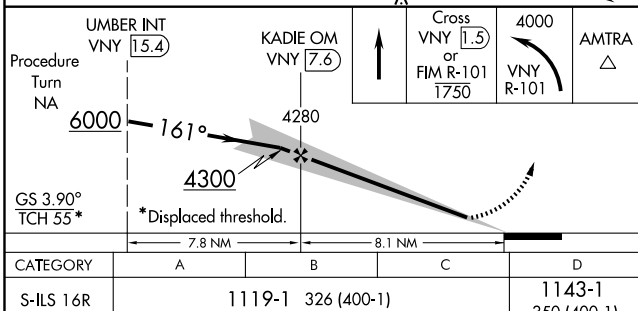
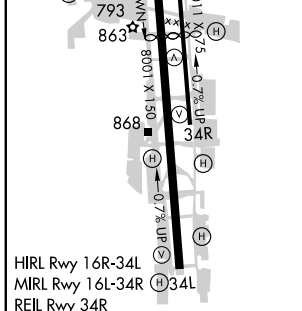
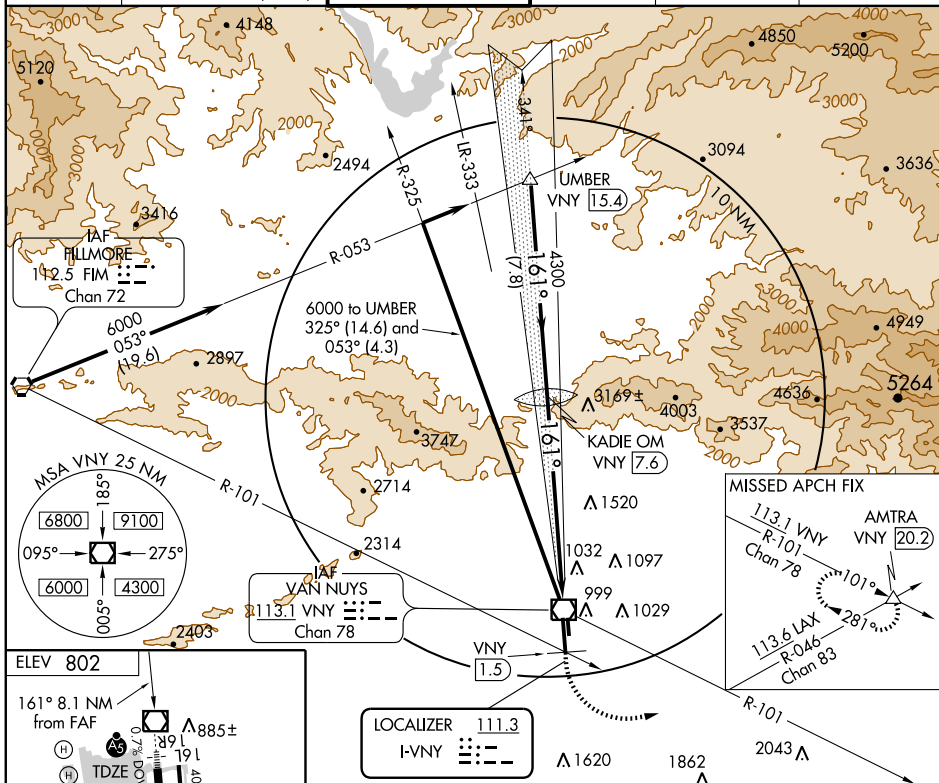
LOC I-VNY	APP CRS	Rwy Idg	6570
111.3	161°	TDZE	793
		Apt Elev	802

▼ Inoperative table does not apply.
▲ Circling requires descent on GS to MDA.
 Visibility reduction by helicopters NA.

MALSR


MISSED APPROACH: Climb to cross VNY 1.5 DME or FIM R-101 at or below 1750, then climbing left turn to 4000 via VNY VOR/DME R-101 to AMTRA INT/VNY 20.2 DME and hold.

ATIS 118.45	SOCAL APP CON 120.4 360.6 (NORTH) 134.2 338.2 (WEST)	VAN NUYS TOWER ★ 119.3 (CTAF) 0 239.0	GND CON 121.7	CLNC DEL 126.6 239.0	UNICOM 122.95
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FAF to MAP 8.1 NM					
Knots	60	90	120	150	180
Min:Sec	8:06	5:24	4:03	3:14	2:42
APPROACH NOT AUTHORIZED WHEN GLIDE SLOPE NOT USED					
CIRCLING	1300-1 498 (500-1)				1360-2 558 (600-2)
	1340-1½ 538 (600-1½)				1360-2 558 (600-2)

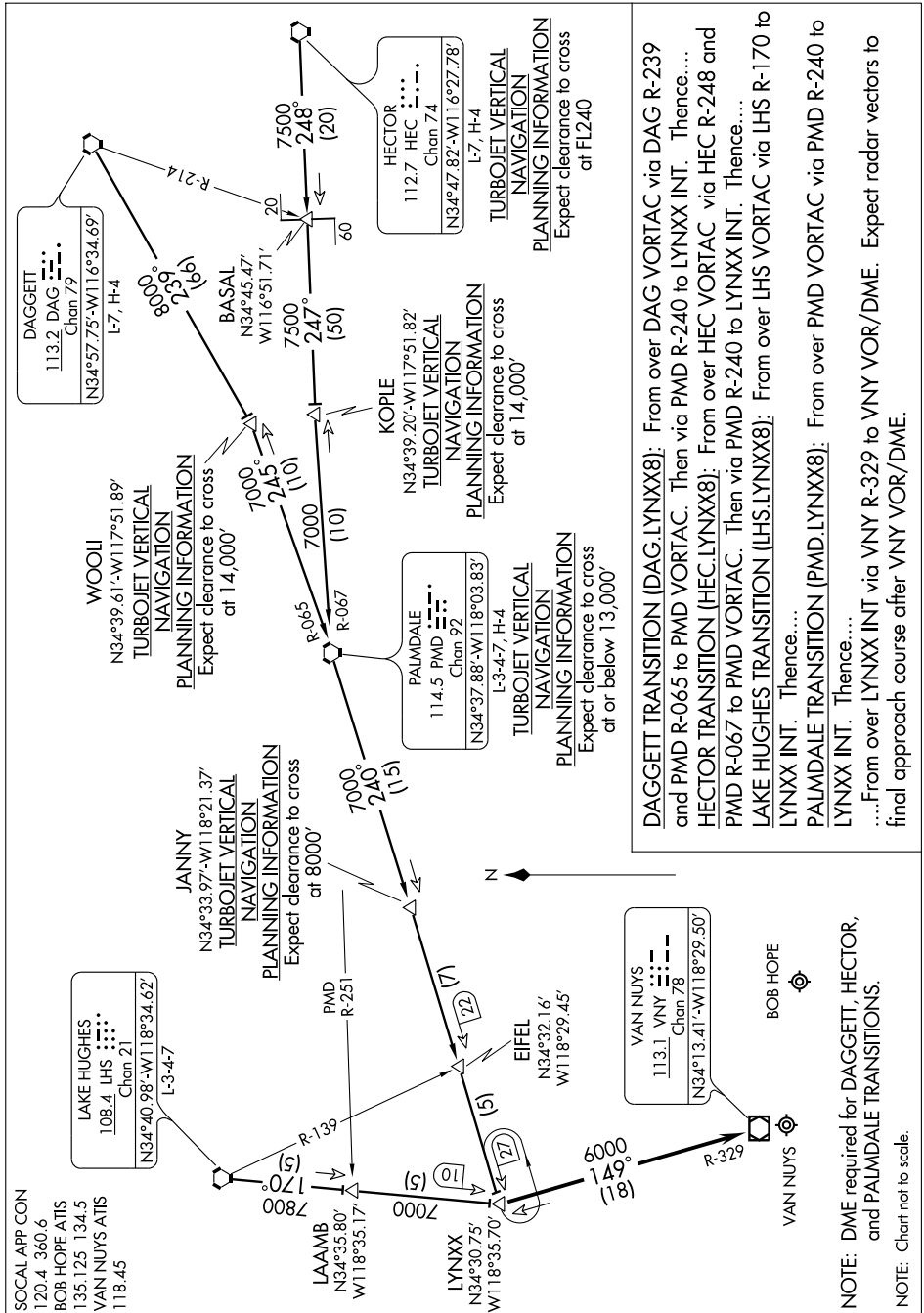
MISSED APPROACH: Climb to 4000 via VNY R-101 to AMTRA INT and hold.

[illegible][illegible]

LYNXE EIGHT ARRIVAL

ST-67 (FAA)

BURBANK, CALIFORNIA

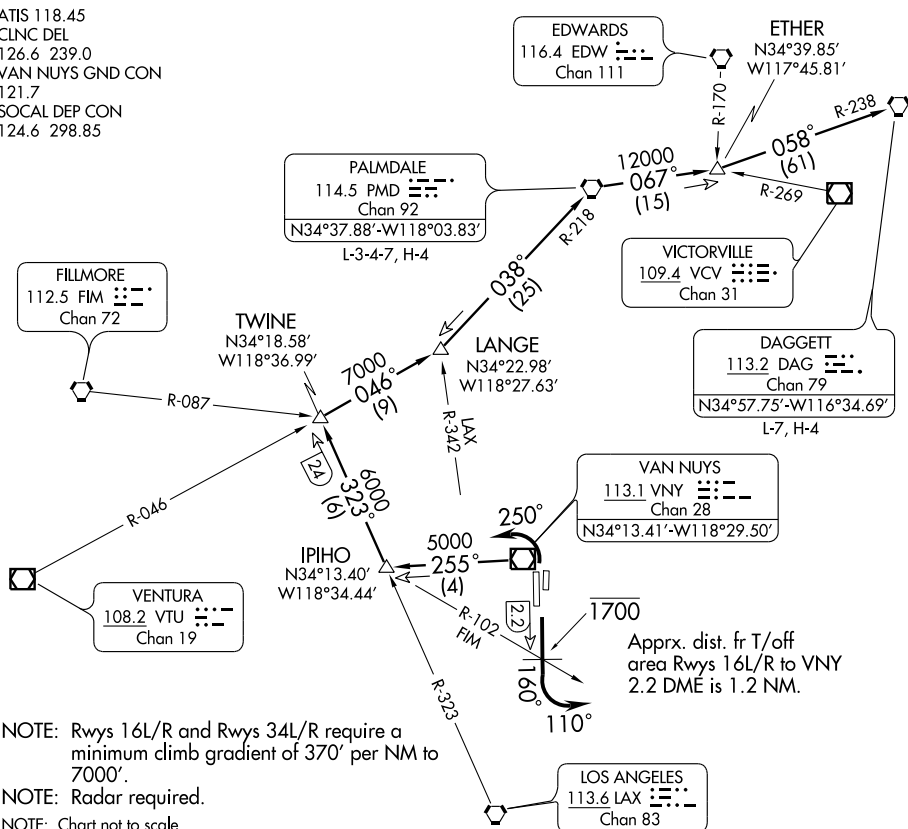


NEWHALL SIX DEPARTURE

SL-552 (FAA)

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA

ATIS 118.45
CLNC DEL
126.6 239.0
VAN NUYS GND CON
121.7
SOCAL DEP CON
124.6 298.85



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L/R: Fly heading 160° to cross FIM R-102 or VNY 2.2 DME at or below 1700'. Then turn left heading 110° for vectors to VNY R-255 and LAX R-323. Then via (transition) or (assigned route).

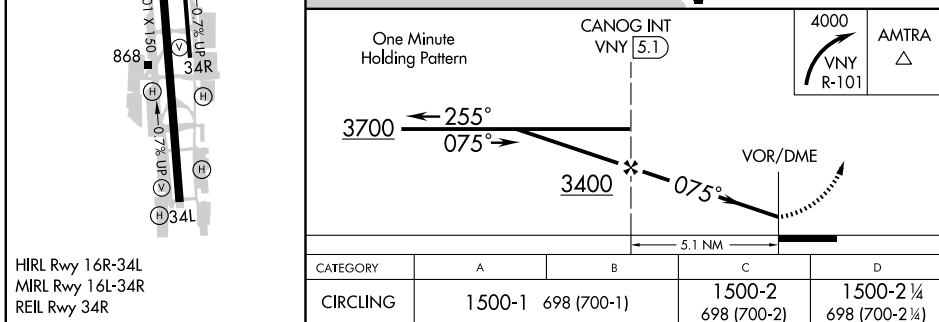
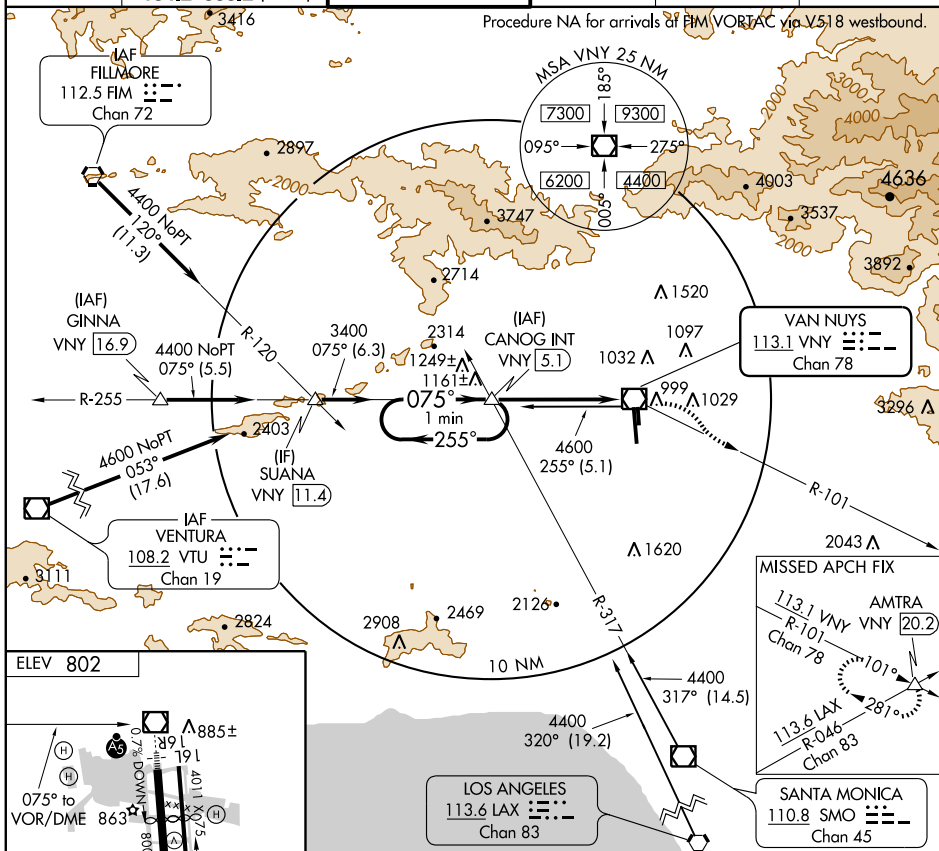
TAKE-OFF RUNWAYS 34L/R: Turn left heading 250° after departure end of runway for vectors to VNY R-255 and LAX R-323. Then via (transition) or (assigned route).

LOST COMMUNICATIONS: If not in contact with Departure Control within 3 NM:
Rwy 16L/R: Intercept the LAX R-323, then as assigned; Rwy 34L/R: Intercept the VNY R-255, then as assigned.

DAGGETT TRANSITION (NUAL6.DAG): Proceed on the VNY R-255 to intercept and proceed via the LAX R-323 and the VTU R-046 to LANGE INT; then the PMD R-218 to the PMD VORTAC. Then via the PMD R-067 and the DAG R-238 to DAG VORTAC.

PALMDALE TRANSITION (NUAL6.PMD): Proceed on the VNY R-255 to intercept and proceed via the LAX R-323 and the VTU R-046 to LANGE INT; then via the PMD R-218 to the PMD VORTAC.

ATIS 118.45	SOCAL APP CON 120.4 360.6 (NORTH) 134.2 338.2 (WEST)	VAN NUYS TOWER* 119.3 (CTAF) 0 239.0	GND CON 121.7	CLNC DEL 126.6 239.0	UNICOM 122.95
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VOR/DME VNY <u>113.1</u> Chan 78	APP CRS 155°	Rwy Idg TDZE Apt Elev	N/A N/A 799
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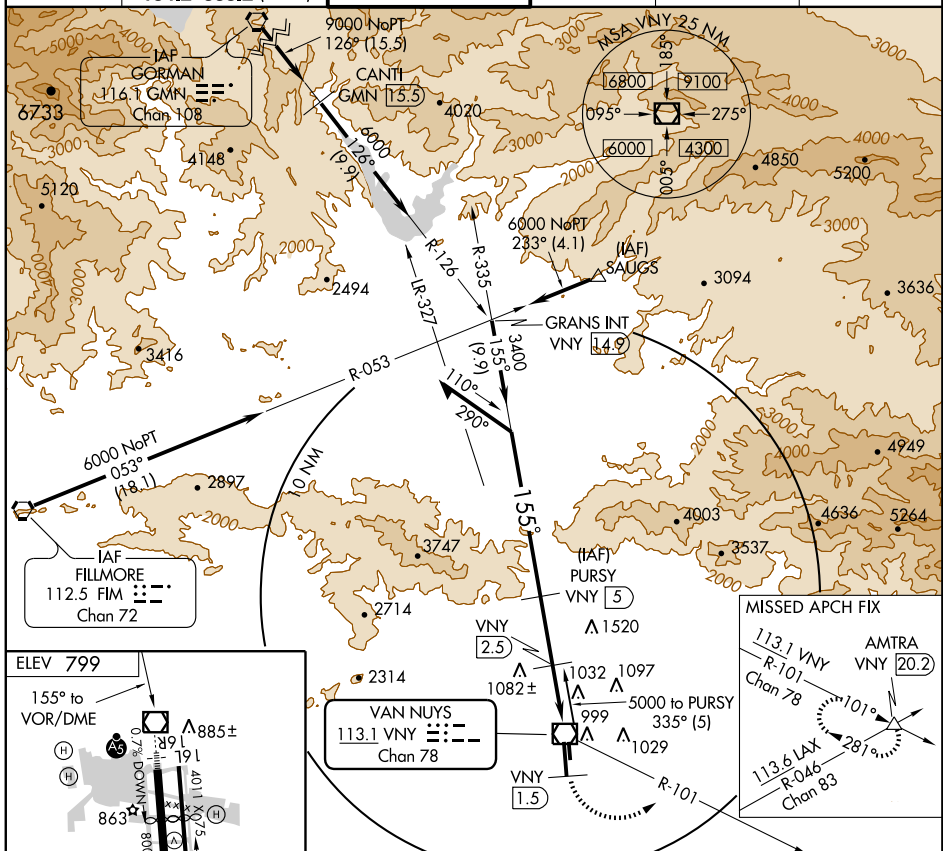
VOR/DME or GPS-B
VAN NUYS (VNY)

VAN NUYS (VNY)

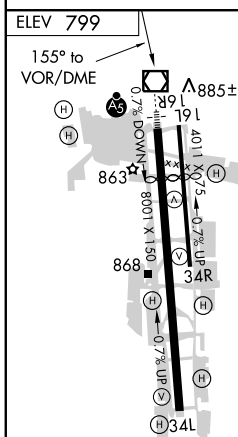


MISSED APPROACH: Climb to cross VNY 1.5 DME at or below 1750, then climbing left turn to 4000 via VNY R-101 to AMTRA INT and hold.

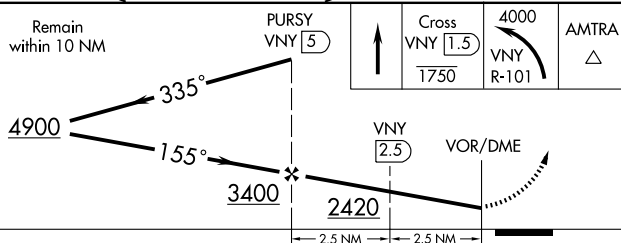
ATIS	SOCAL APP CON	VAN NUYS TOWER*	GND CON	CLNC DEL	UNICOM
118.45	120.4 360.6 (NORTH) 134.2 338.2 (WEST)	119.3 (CTAF) 239.0	121.7	126.6 239.0	122.95



SW-3. 14 JAN 2010 to 11 FEB 2010



HIRL Rwy 16R-34L
MIRL Rwy 16L-34R
REIL Rwy 34R



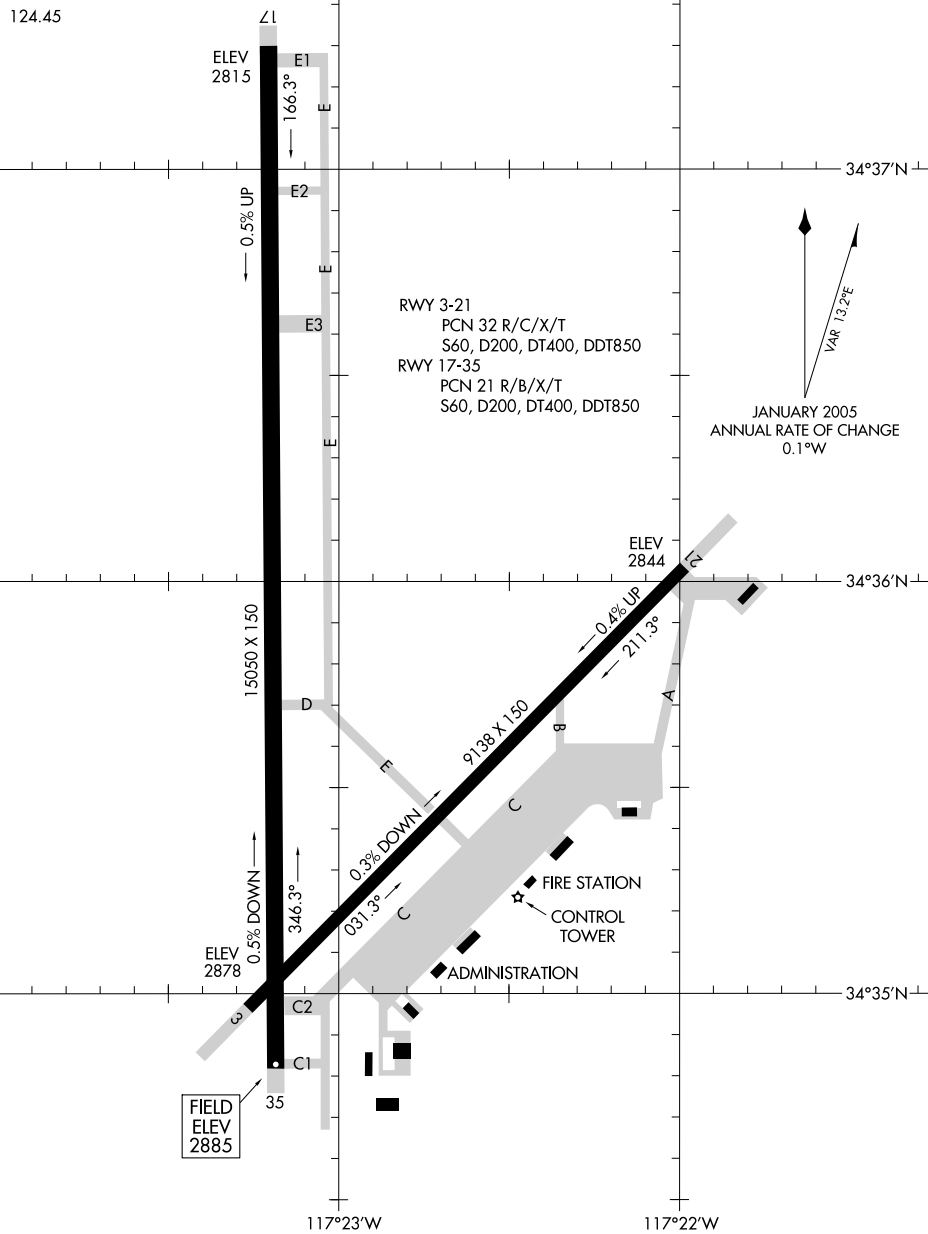
CATEGORY	A	B	C	D
CIRCLING	1300-1	501 (600-1)	1340-1½ 541 (600-1½)	1360-2 561 (600-2)

AIRPORT DIAGRAM

VICTORVILLE/SOUTHERN CALIFORNIA LOGISTICS (VCV)
AL-794 (FAA) VICTORVILLE, CALIFORNIA

AWOS-3
109.4
VICTORVILLE TOWER ★
118.35
GND CON
124.45

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



SW-3, 14 JAN 2010 to 11 FEB 2010

ILS or LOC RWY 17

VICTORVILLE/ SOUTHERN CALIFORNIA LOGISTICS (VCV)

LOC I-VCV
108.75

APP CRS
166°

Rwy Idg
15050

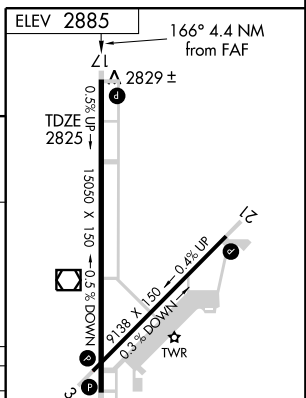
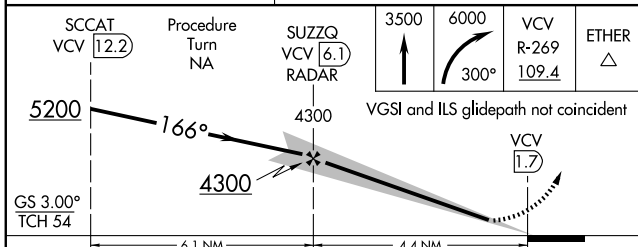
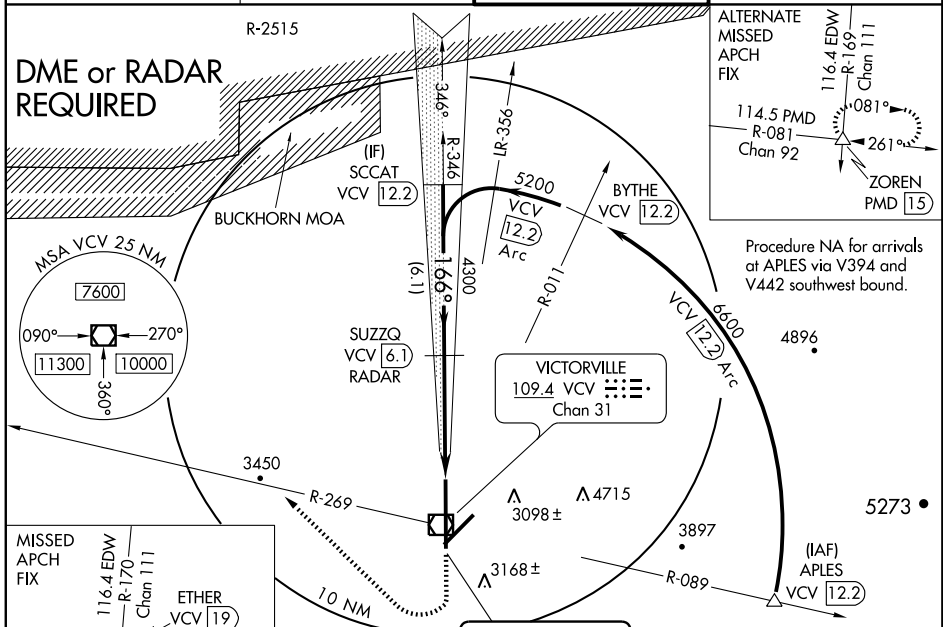
TDZE
2825

Apt Elev
2885

When local altimeter setting not received, use Edwards AFB altimeter setting and increase all DA and MDA 160 feet. Increase all visibilities ½ mile.
DME from VCV VOR/DME. Simultaneous reception of I-VCV and VCV DME required.

MISSED APPROACH: Climb to 3500, then climbing right turn to 6000 via heading 300° and VCV VOR/DME R-269 to ETHER INT and hold.

AWOS-3 109.4	JOSHUA APP CON 124.55 363.0	VICTORVILLE TOWER * 118.35 0	GND CON 124.45
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CATEGORY	A	B	C	D
S-ILS 17	3025/40	200 (200-¾)		
S-LOC 17	3080/50	255 (200-1)		
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)

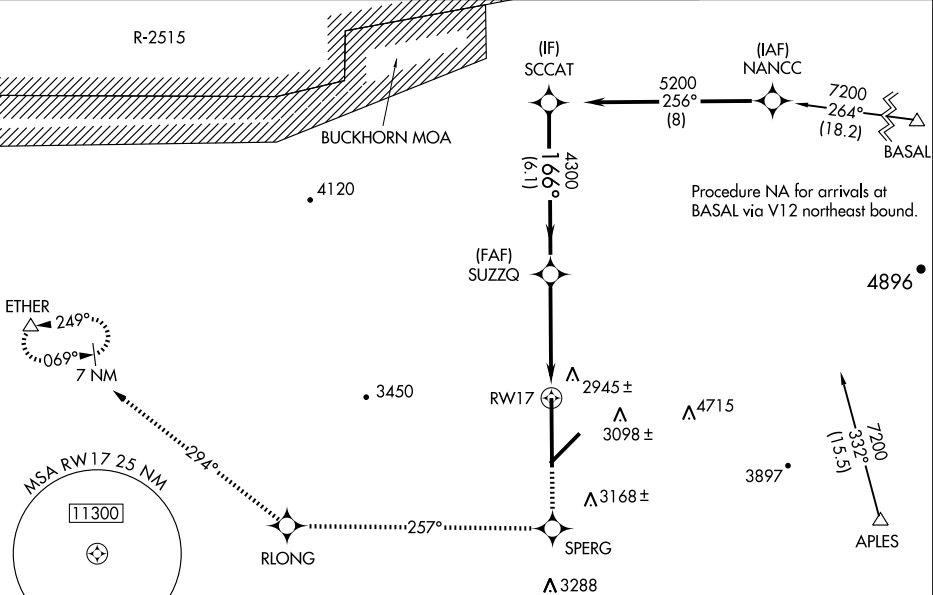
REIL Rwy 17 and 35					
HIRL Rwy 3-21 and 17-35					
FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

WAAS CH 77523 W17A	APP CRS 166°	Rwy Idg TDZE Apt Elev	15050 2825 2885
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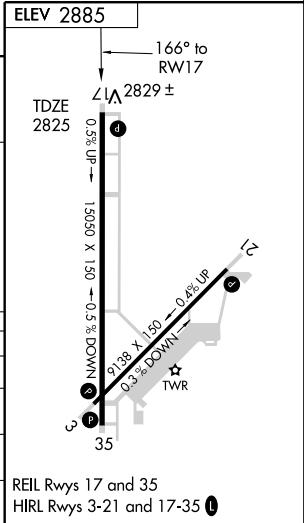
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
⚠ DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Edwards AFB altimeter setting and increase all DA and MDA 160 feet. Increase all visibilities ¾ mile.
VDP and Baro-VNAV NA when using Edwards AFB altimeter setting.

MISSED APPROACH: Climb to 6000 direct SPERG and via 257° track to RLONG and via 294° track to ETHER and hold.

AWOS-3 109.4	JOSHUA APP CON 124.55 363.0	VICTORVILLE TOWER * 118.35 0	GND CON 124.45
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Procedure Turn NA		SCCAT	6000 ↑		SPERG ✧	257° track ✧	RLONG ✧	294° track ✧	ETHER △
5200			SUZZQ		VGSI and RNAV glidepath not coincident.				
166°			4300		*0.8 NM to RW17				
4300			✕		RW17				
GS 3.00° TCH 54			*LNAV only		0.8				
6.1 NM			3.6 NM		0.8				
CATEGORY	A	B	C	D					
LPV DA	3075/40 250 (200-¾)								
LNAV/VNAV DA	3240-1½ 415 (400-1½)								
LNAV MDA	3140/50 315 (300-1)								
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)					



SW-3. 14 JAN 2010 to 11 FEB 2010

VOR/DME VCV 109.4 Chan 31	APP CRS 170°	Rwy Idg 15050 TDZE 2825 Apt Elev 2885
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VOR/DME RWY 17

VICTORVILLE/ SOUTHERN CALIFORNIA LOGISTICS (VCV)

T When local altimeter setting not received, use Edwards AFB
A altimeter setting and increase all MDA 160 feet. Increase all
visibilities ½ mile.

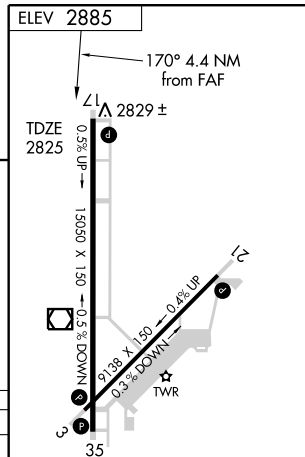
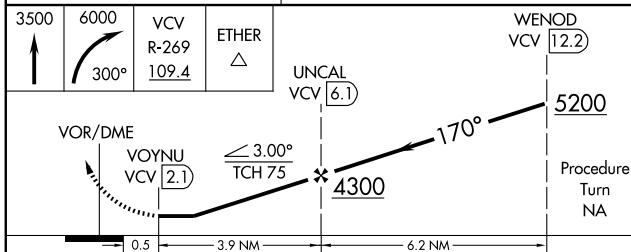
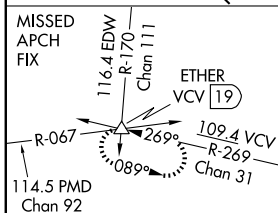
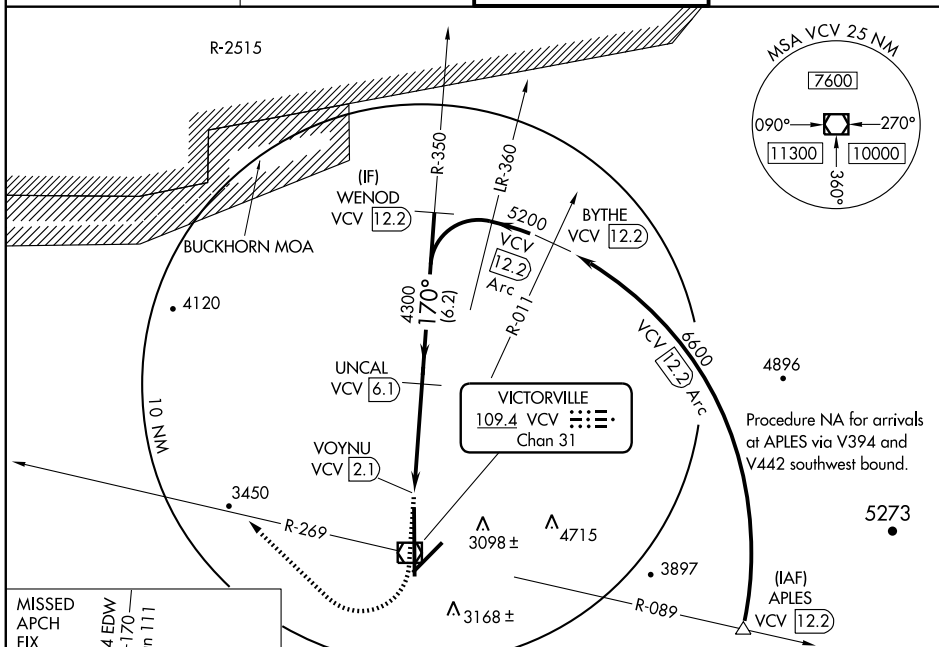
MISSED APPROACH: Climb to 3500, then climbing right turn to 6000 via heading 300° and VCV R-269 to ETHER INT and hold.

AWOS-3
109.4

JOSHUA APP CON
124.55 363.0

VICTORVILLE TOWER ★
118.35 L

GND CON
124.45



CATEGORY	A	B	C	D
S-17	3200/50 375 (400-1)			3200/60 375 (400-1¼)
CIRCLING	3360-1 475 (500-1)	3420-1 535 (600-1)	3420-1½ 535 (600-1½)	3580-2¼ 695 (700-2¼)

REIL Rwy 17 and 35
HIRL Rwy 3-21 and 17-35 **L**

MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct VIS VOR/DME and hold, continue climb-in-hold to 3000.

[illegible][illegible]

APP CRS 129°	Rwy Idg 5635 TDZE 294 Apt Elev 295
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RNAV (GPS) RWY 12

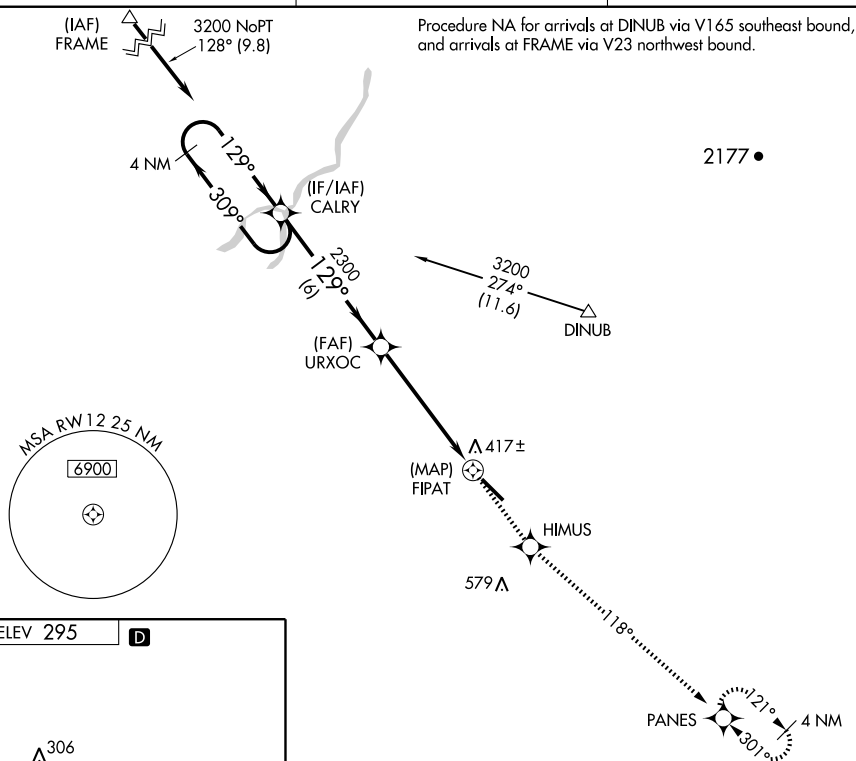
VISALIA MUNI (VIS)

DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Hanford altimeter setting and increase all MDA 40 feet and increase LNAV Cat C visibility ¼ mile.

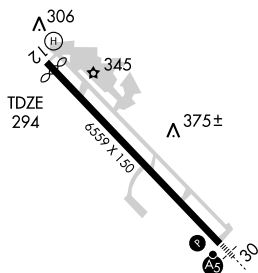
MISSED APPROACH: Climb to 2900 direct HIMUS and via 118° track to PANES and hold.

AWOS-3
119.925

FRESNO APP CON
118.5

UN|COM
123.05 (CTAF) L

ELEV 295



HIRL Rwy 12-30 (L)

4 NM Holding Pattern		CALRY		2900 ↑	HIMUS ✱	118° track	PANES ✱
3200 ← 309° 129° →		129°		URXOC ✱	3.07° ≥ TCH 50	FIPAT ↗	
		6 NM		5.5 NM		0.5 NM	
CATEGORY	A	B	C	D			
LNAV MDA	680-1 386 (400-1)				680-1¼ 386 (400-1¼)		
CIRCLING	720-1 425 (500-1)	760-1 465 (500-1)	760-1½ 465 (500-1½)	860-2 565 (600-2)			

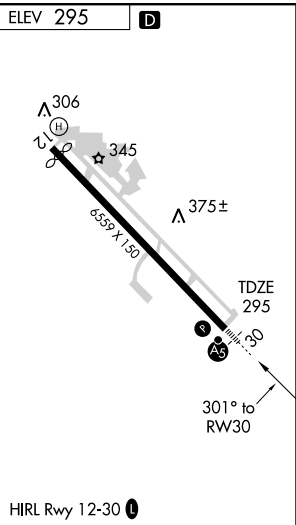
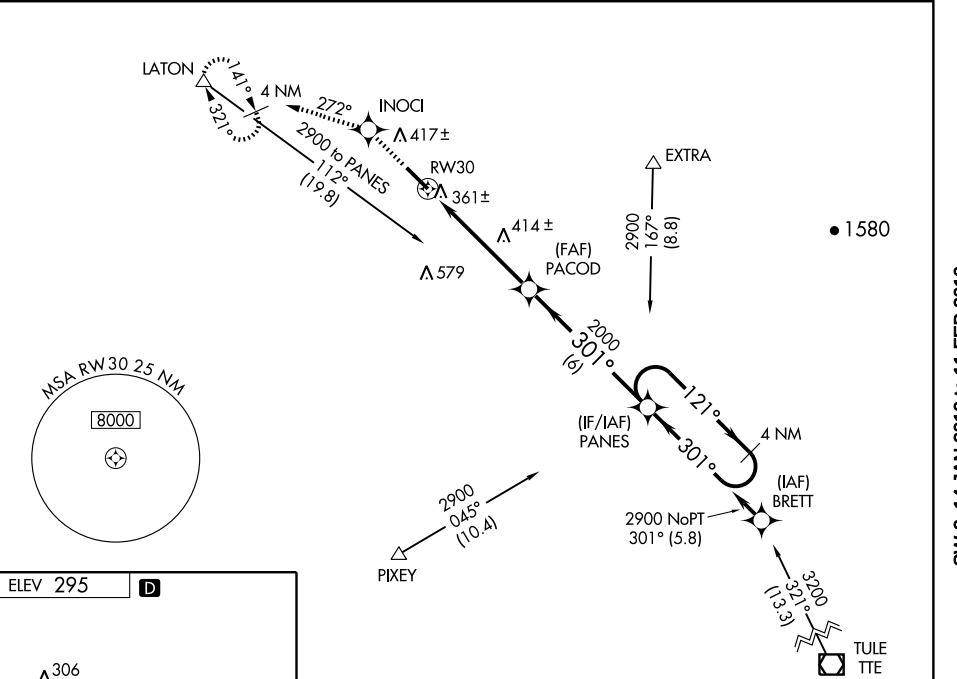
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA.

⚠ When local altimeter setting not received, use Hanford altimeter setting and increase all DA/MDA 40 feet and increase LNAV Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using Hanford altimeter setting. For inoperative MALSR when using local altimeter and Hanford altimeter setting, increase LNAV Cat D visibility to 1¼ mile.

MALSR

MISSED APPROACH: Climb to 3000 direct INOCI and via 272° track to LATON and hold, continue climb-in-hold to 3000.

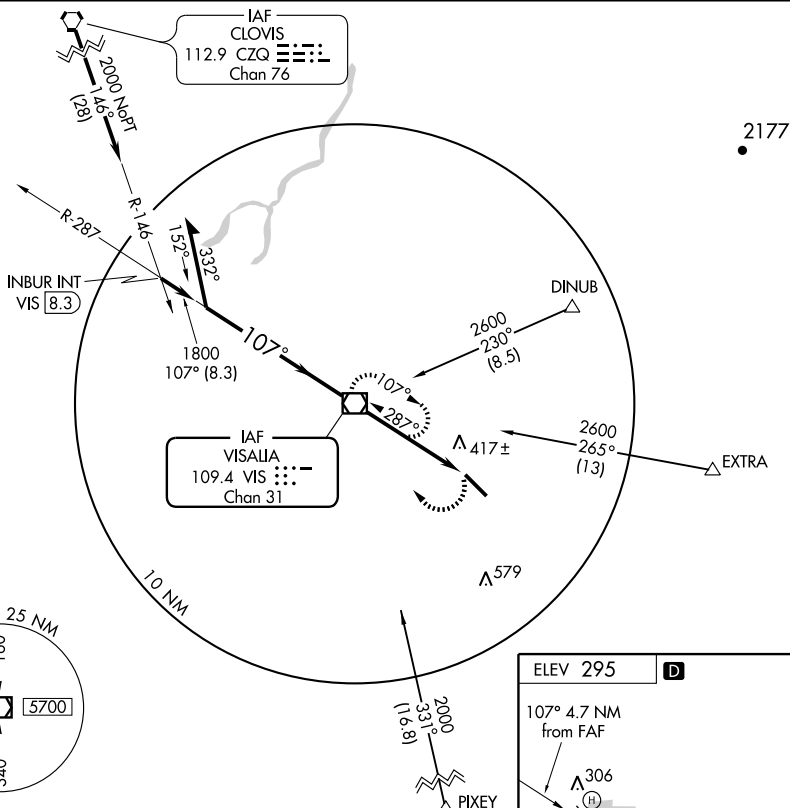
AWOS-3 119.925	FRESNO APP CON 118.5	UNICOM 123.05 (CTAF) U
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3000	INOCI	272° track	LATON	PANES	4 NM Holding Pattern
*LNAV only					
*1.1 NM to RW30					
RW30					
PACOD					
2000					
1.1 4 NM 6 NM					
CATEGORY	A	B	C	D	
LNAV/VNAV DA	626-¾ 331 (400-¾)				
LNAV MDA	680-½ 385 (400-½)				680-1 385 (400-1)
CIRCLING	720-1 425 (500-1)	760-1 465 (500-1)	760-1½ 465 (500-1½)	860-2 565 (600-2)	860-2 565 (600-2)

SW-2, 14 JAN 2010 to 11 FEB 2010

MISSED APPROACH: Climbing right turn to 2000 direct
VIS VOR/DME and hold.

UNICOM
123.05 (CTAF) **L**

Remain within 10 NM

VOR/DME

2000

287°

107°

1800

2.90° TCH 50

4.7 NM

VIS 4.7

109.4

CATEGORY	A	B	C	D	HIRL Rwy 12-30 					
S-12	680-1 386 (400-1)			680-1½ 386 (400-1½)	FAF to MAP 4.7 NM					
CIRCLING	720-1 425 (500-1)	760-1 465 (500-1)	760-1½ 465 (500-1½)	860-2 565 (600-2)	Knots	60	90	120	150	180
					Min:Sec	4:42	3:08	2:21	1:53	1:34

LOC I-AYN <u>108.3</u>	APP CRS 016°	Rwy Idg TDZE Apt Elev	4501 152 163
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LOC RWY 2
WATSONVILLE MUNI (WVI)

T Circling not authorized west of Rwy 2-20. When local altimeter setting
A not received, use Monterey altimeter setting and increase all MDA 80
feet and visibility Cats C and D $\frac{1}{4}$ mile and circling Cat C $\frac{1}{4}$ mile.

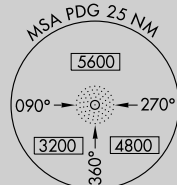
MISSED APPROACH: Climbing right turn to 5000 direct SNS VORTAC and hold, continue climb-in-hold to 5000.

ASOS
132.275

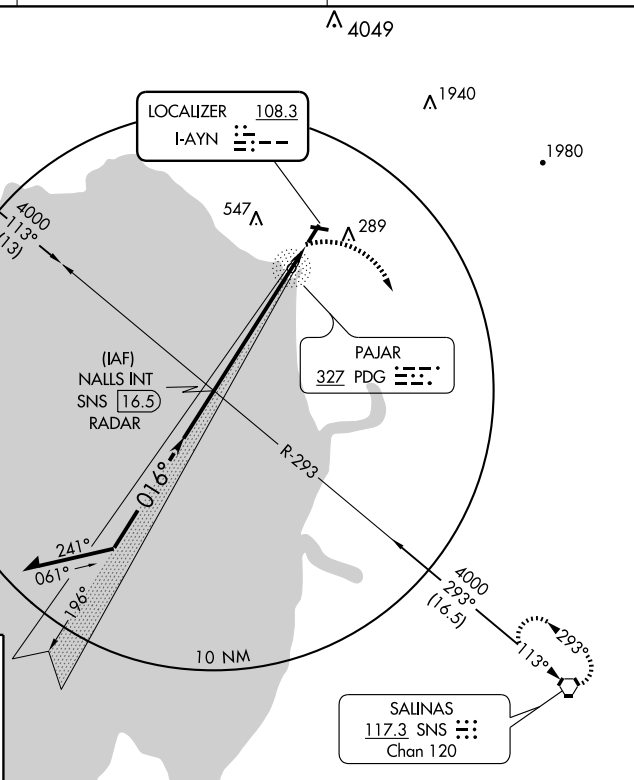
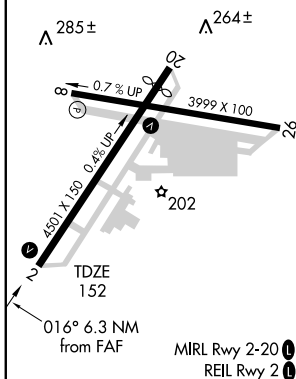
NORCAL APP CON
127.15 307.125

UNICOM
122.8 (CTAF) **L**

SNS DME at NALLS for procedure entry only.



ELEV 163



Remain
within 10 NM

NALLS INT
SNS 16.5
RADAR

5000

SNS

117.3

3000 $\swarrow$ 196°
 $\searrow$ 016° 2200

3.02° $\searrow$
TCH 48

Δ 3635

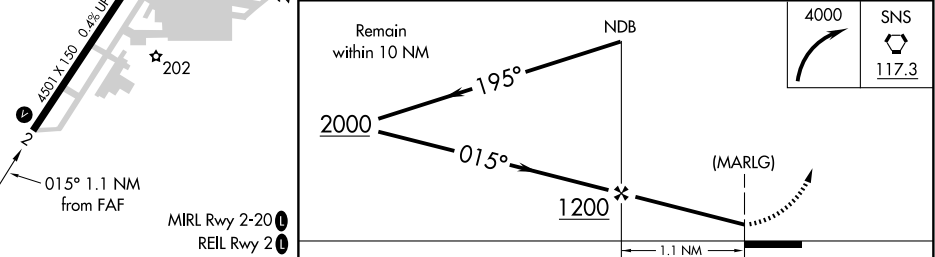
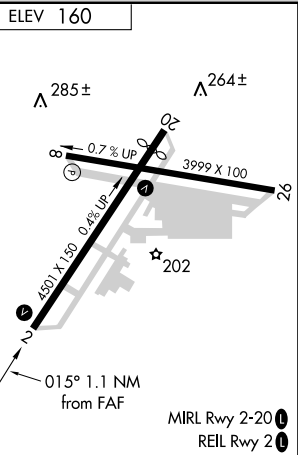
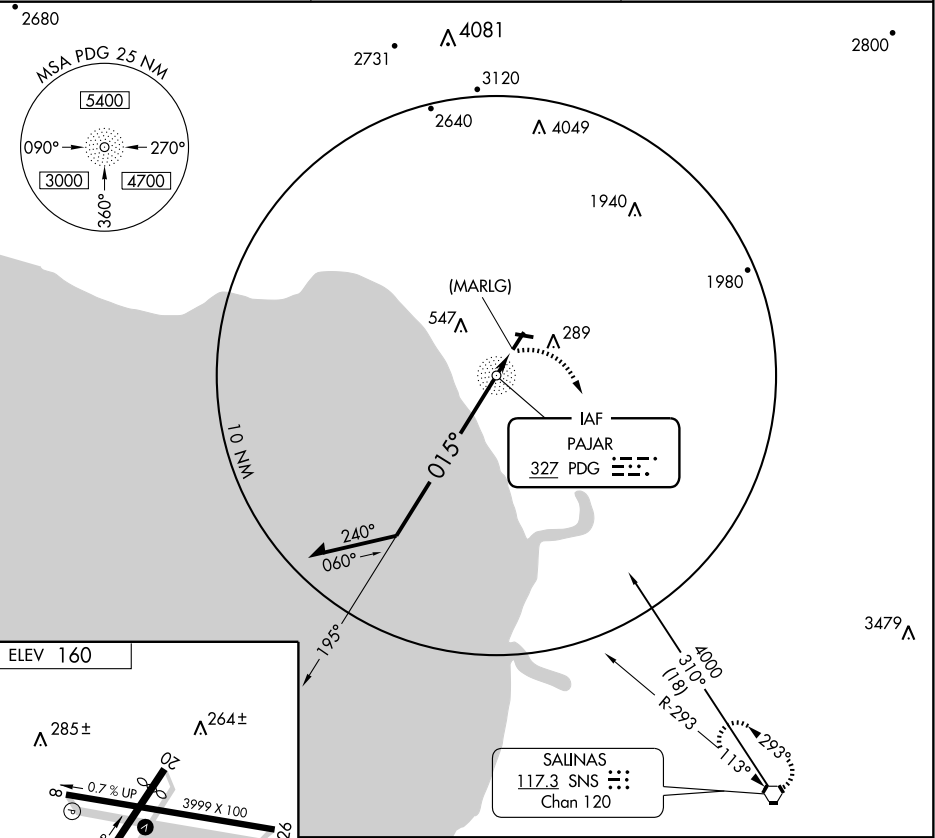
CATEGORY	A	B	C	D
S-2	680-1	528 (600-1)	680-1½ 528 (600-½)	680-1¾ 528 (600-¼)
CIRCLING	680-1	517 (600-1)	680-1½ 517 (600-½)	720-2 557 (600-2)

NDB PDG 327	APP CRS 015°	Rwy Idg TDZE Apt Elev	N/A N/A 160
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NDB or GPS-B
WATSONVILLE MUNI (WVI)

 NA	Circling not authorized west of Rwy 2-20.	MISSED APPROACH: Climbing right turn to 4000 direct SNS VORTAC and hold.
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ASOS 132.275	NORCAL APP CON 127.15 307.125	UNICOM 122.8 (CTAF) 0
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FAF to MAP 1.1 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	900-1	740 (800-1)	900-2 740 (800-2)	900-2¼ 740 (800-2¼)
Min:Sec	1:06	0:44	0:33	0:26	0:22					

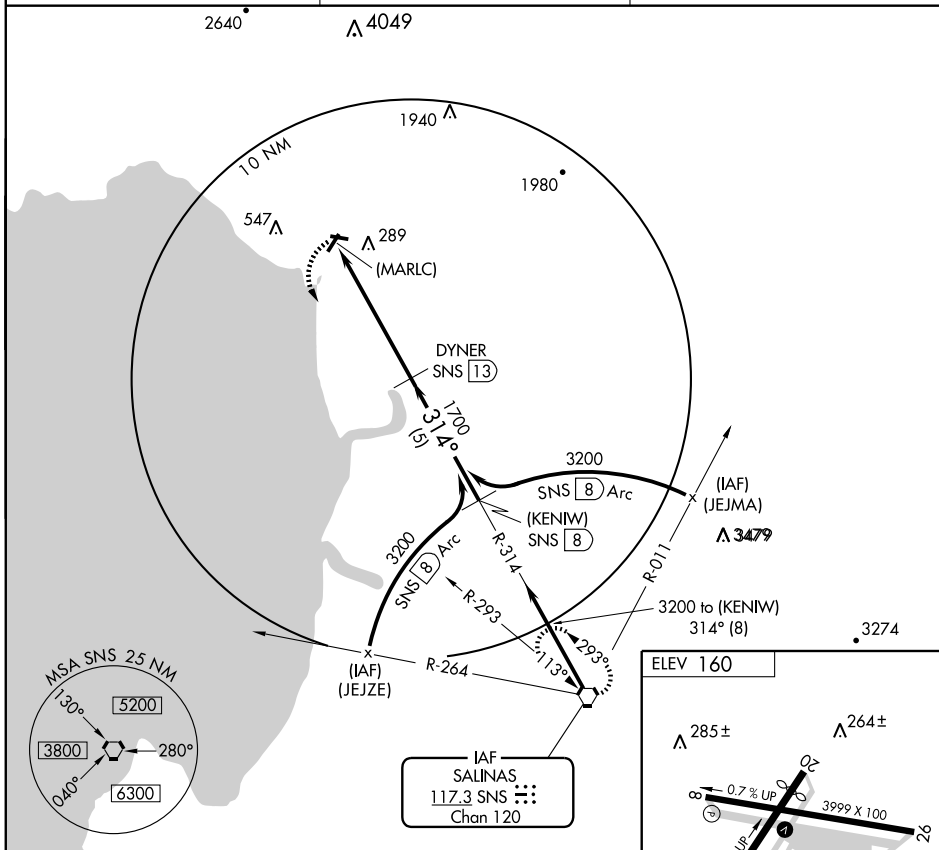
VORTAC SNS 117.3 Chan 120	APP CRS 314°	Rwy Idg TDZE Apt Elev N/A N/A 160
---	------------------------	---

VOR/DME or GPS-A

WATSONVILLE MUNI (WVI)

NA Circling not authorized west of Rwy 2-20.	MISSED APPROACH: Climbing left turn to 4000 direct SNS VORTAC and hold.
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ASOS 132.275	NORCAL APP CON 127.15 307.125	UNICOM 122.8 (CTAF)
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4000

SNS



117.3

(MARLC)

SNS 18.6

DYNER

SNS 13

(KENIW)

SNS 8

314°

1700

3200

Procedure Turn NA

5.6 NM

5 NM

CATEGORY	A	B	C	D
CIRCLING	1300-1¼ 1140 (1200-1¼)	1300-1½ 1140 (1200-1½)	1300-3	1140 (1200-3)

MIRL Rwy 2-20

REIL Rwy 2

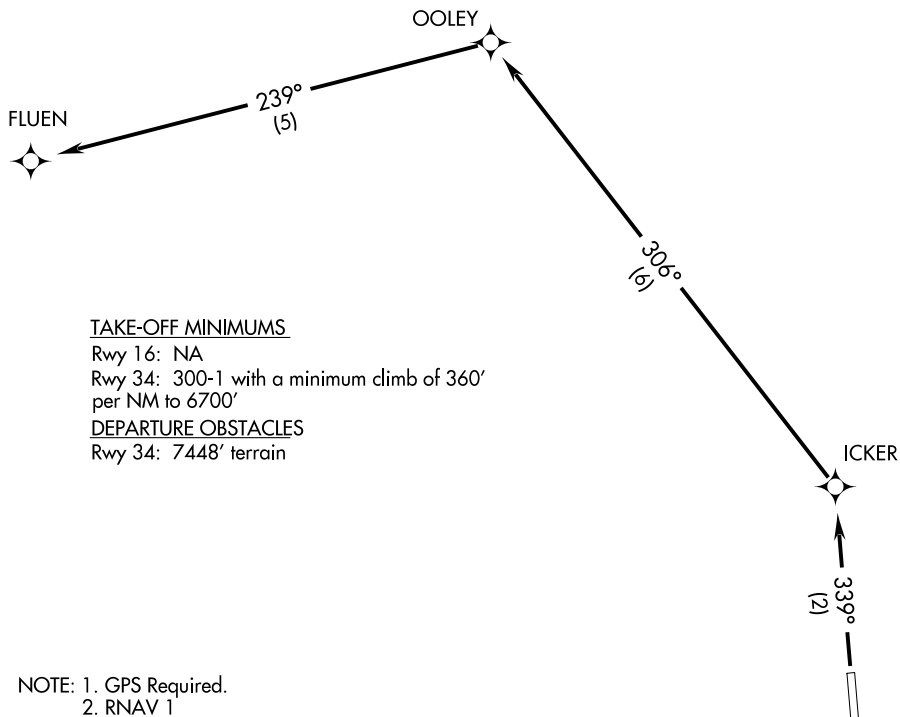
4301 X 150 0.6%

202

314° 5.6 NM from FAF

MIRL Rwy 2-20
REIL Rwy 2

OAKLAND CENTER
132.2 350.3
UNICOM 122.8 (CTAF) 1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 34: Climb via 339° course to ICKER WP, then via 306° course to OOLEY WP, then via 239° course to FLUEN WP, thence proceed on course.

MENDOCINO ONE DEPARTURE (RNAV) (OBSTACLE)

WILLITS, CALIFORNIA

OAKLAND CENTER
132.2 350.3
UNICOM 122.8 (CTAF)

TAKE-OFF MINIMUMS

Rwy 16: Standard
Rwy 34: N/A Obstacles

TAKE-OFF OBSTACLES

Rwy 16: Trees 1812' from departure end of rwy,
844' left of centerline, 100' AGL/2139' MSL.

NOTE: 1. GPS Required.
2. RNAV 1

SW-2, 14 JAN 2010 to 11 FEB 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb to 6000 direct VICOR WP, then via 153° track to
ENI VORTAC, thence proceed on course.

APP CRS	Rwy Idg	3000
145°	TDZE	2063
	Apt Elev	2063

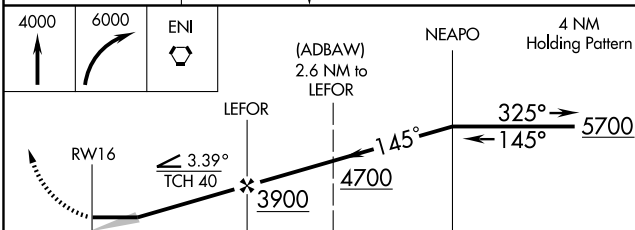
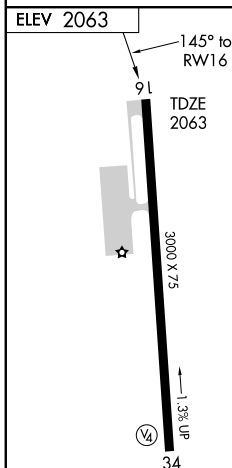
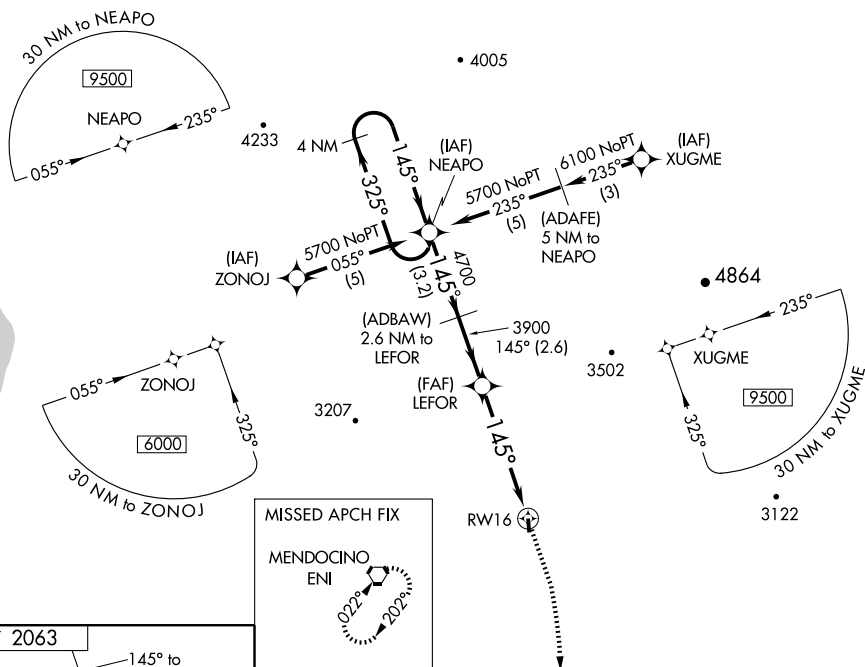
RNAV (GPS) RWY 16
WILLITS/ELLS FIELD-WILLITS MUNI (O28)

T	Obtain local altimeter setting on CTAF, when not received use Ukiah Muni altimeter setting.
A NA	Circling NA west of Rwy 16-34. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4000 then climbing right turn to 6000 direct ENJ VORTAC and hold.

OAKLAND CENTER
132.2 350.3

UNICOM
122.8 (CTAF) **L**



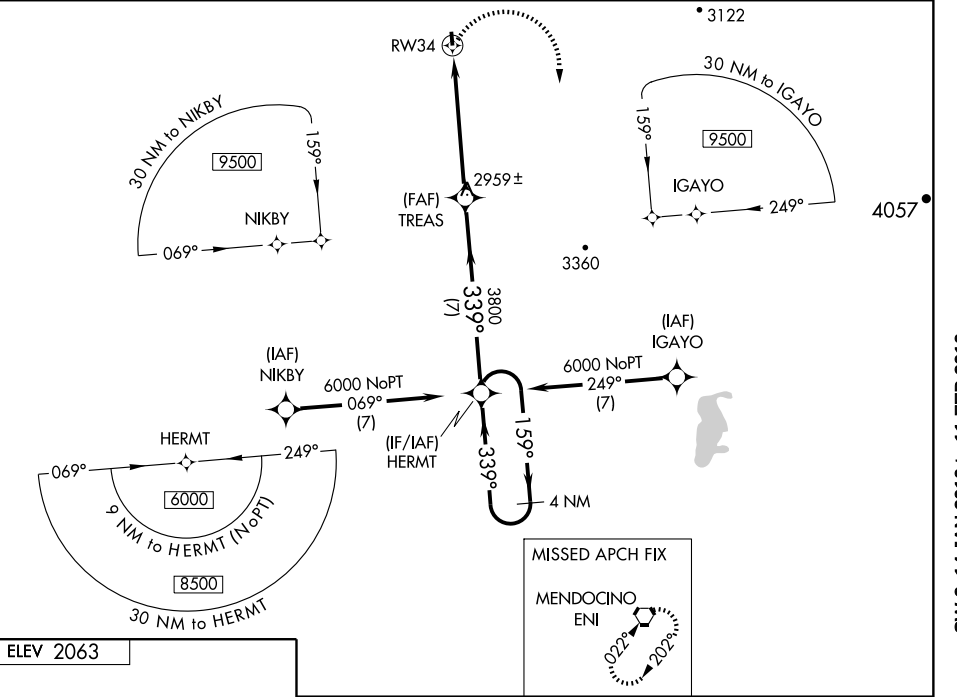
	5 NM	2.6 NM	3.2 NM	
CATEGORY	A	B	C	D
LNAV MDA	3340-1¼ 1277 (1300-1¼)	3340-1½ 1277 (1300-1½)	3340-3 1277 (1300-3)	NA
CIRCLING	3340-1¼ 1277 (1300-1¼)	3340-1½ 1277 (1300-1½)	3340-3 1277 (1300-3)	NA
UKIAH MUNI ALTIMETER SETTING				
LNAV MDA	3600-1¼ 1537 (1600-1¼)	3600-1½ 1537 (1600-1½)	3600-3 1537 (1600-3)	NA
CIRCLING	3600-1¼ 1537 (1600-1¼)	3600-1½ 1537 (1600-1½)	3600-3 1537 (1600-3)	NA

Obtain local altimeter setting on CTAF, when not received use Ukiah altimeter setting.
Circling NA west of Rwy 16-34.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

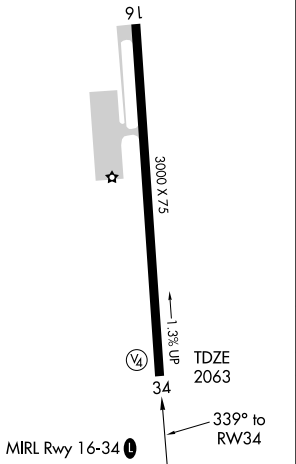
MISSED APPROACH: Climbing right turn to 6000 direct ENI VORTAC and hold.

OAKLAND CENTER
132.2 350.3

UNICOM
122.8 (CTAF) 0



ELEV 2063



6000	ENI	VGSI and descent angles not coincident.			
		TREAS	HERMT		
		RW34	4 NM Holding Pattern		
		3.00° TCH 40	159° → 6000		
		3800	← 339°		
		5.5 NM	7 NM		
CATEGORY	A	B	C	D	
LNAV MDA	2780-1	717 (800-1)	2780-2 717 (800-2)	NA	
CIRCLING	2780-1	717 (800-1)	2780-2 717 (800-2)	NA	
UKIAH MUNI ALTIMETER SETTING MINIMUMS					
LNAV MDA	3020-1¼ 957 (1000-1¼)	3020-1½ 957 (1000-1½)	3020-3 957 (1000-3)	NA	
CIRCLING	3020-1¼ 957 (1000-1¼)	3020-1½ 957 (1000-1½)	3020-3 957 (1000-3)	NA	

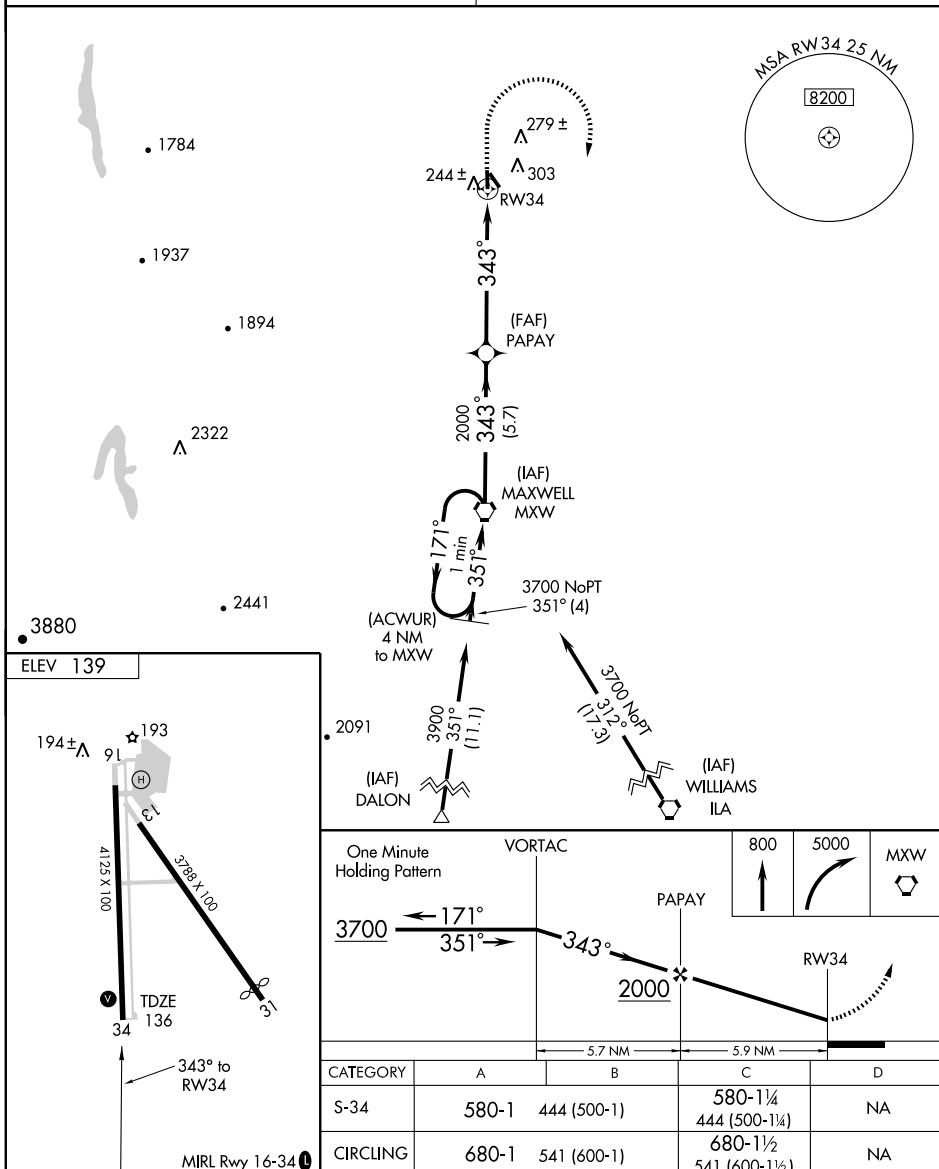
SW-2, 14 JAN 2010 to 11 FEB 2010

APP CRS	Rwy Idg	4125
343°	TDZE	136
	Apt Elev	139

GPS RWY 34

WILLOWS-GLENN COUNTY (WLW)

NA Use Oroville Muni altimeter setting.	MISSED APPROACH: Climb to 800 then climbing right turn to 5000 direct MXW VORTAC and hold.
OAKLAND CENTER 132.2 350.3	UNICOM 122.8 (CTAF)



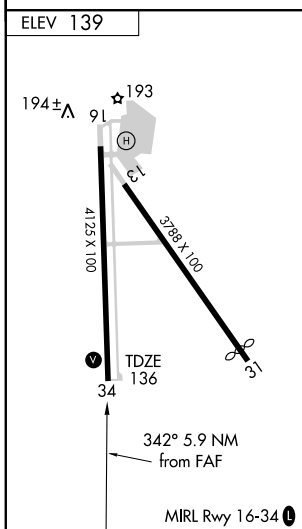
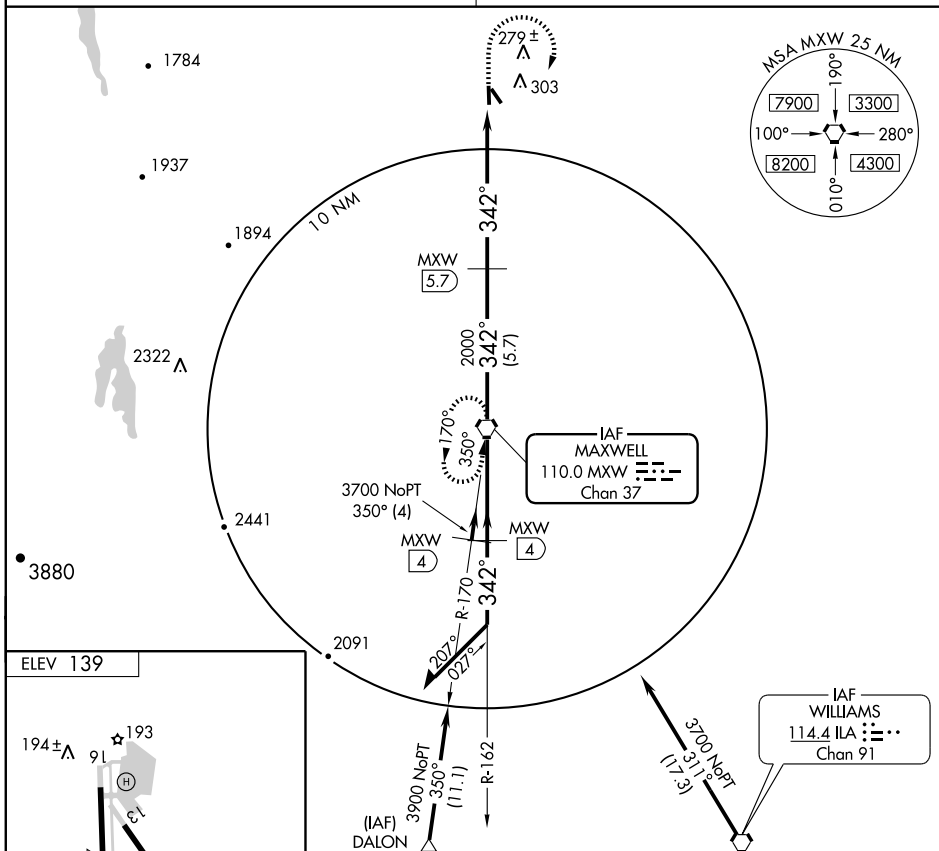
VORTAC MXW 110.0 Chan 37	APP CRS 342°	Rwy Idg 4125 TDZE 136 Apt Elev 139
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VOR/DME RWY 34
WILLOWS-GLENN COUNTY (WLW)

T
ANA Use Oroville Muni altimeter setting.

MISSED APPROACH: Climb to 900 then climbing right turn to 5000 direct MXW VORTAC and hold.

OAKLAND CENTER
132.2 350.3

UNICOM
122.8 (CTAF) 

CATEGORY	A	B	C	D
S-34	600-1	464 (500-1)	600-1¼ 464 (500-1¼)	NA
CIRCLING	680-1	541 (600-1)	680-1½ 541 (600-1½)	NA

▼

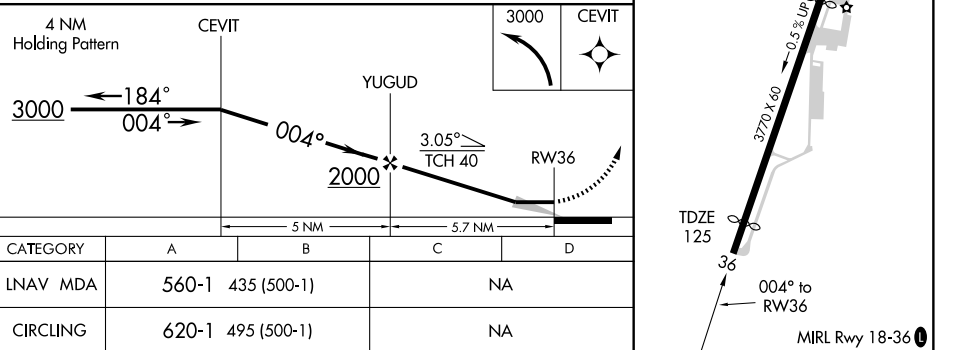
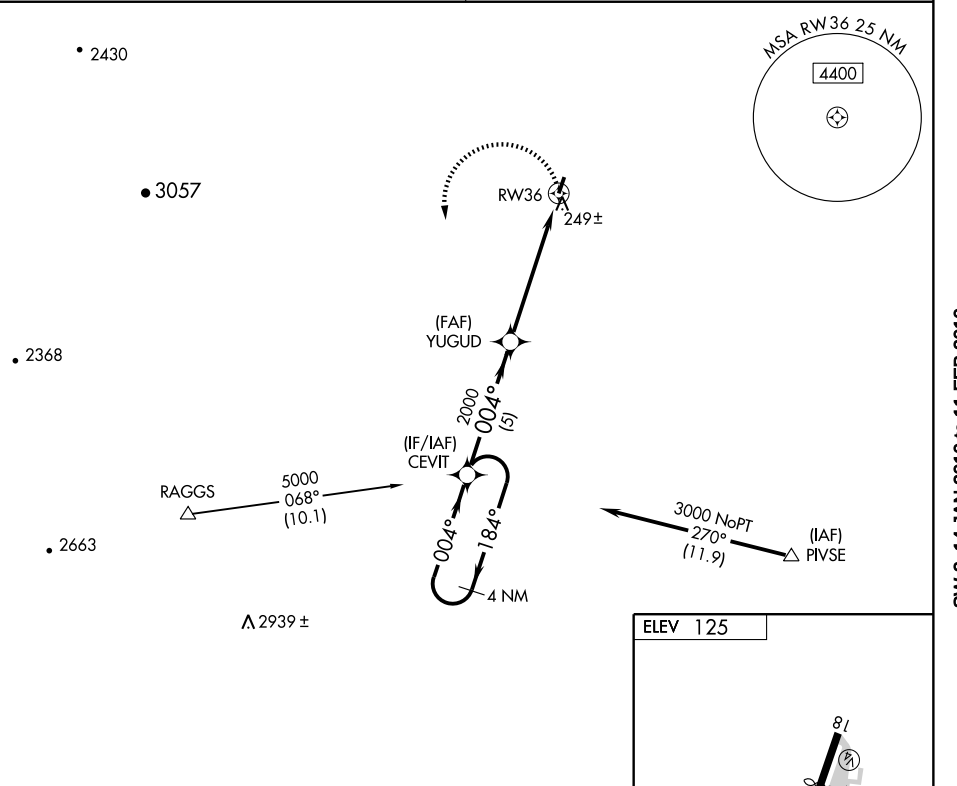
▲ NA

DME/DME RNP- 0.3 NA.
Procedure NA at night.
Use Sacramento Infil altimeter setting; when not received,
use Sacramento Executive altimeter setting and increase
all MDA 20 feet.

MISSED APPROACH: Climbing left turn to 3000 direct CEVIT
and hold.

TRAVIS APP CON
126.6 291.0

UNICOM
122.8 (CTAF) 



SW-2, 14 JAN 2010 to 11 FEB 2010

VORTAC SAC 115.2 Chan 99	APP CRS 296°	Rwy Idg TDZE Apt Elev N/A N/A 125
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VOR/DME-A

WOODLAND/WATTS-WOODLAND (041)

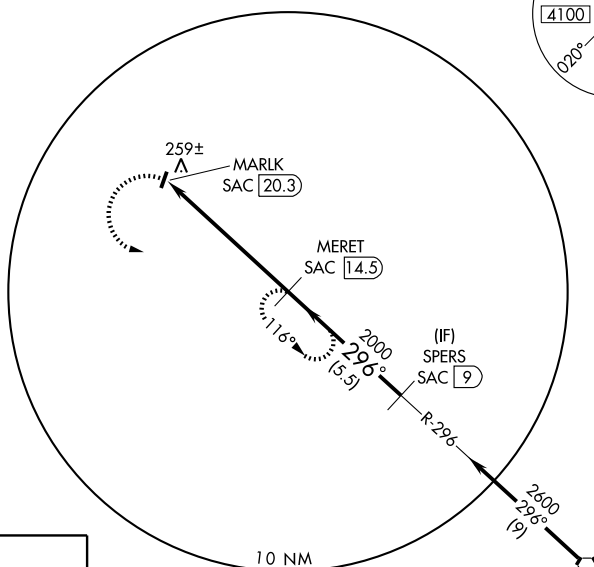
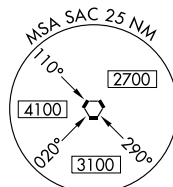
Procedure NA at night.
NA Use Sacramento Intl altimeter setting; when not received, use Sacramento Executive altimeter setting and increase all MDA 20 feet.

MISSED APPROACH: Climbing left turn to 2000 via SAC VORTAC R-296 to MERET/14.5 DME and hold.

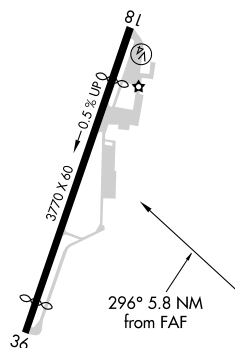
TRAVIS APP CON
126.6 291.0

UNICOM
122.8 (CTAF)

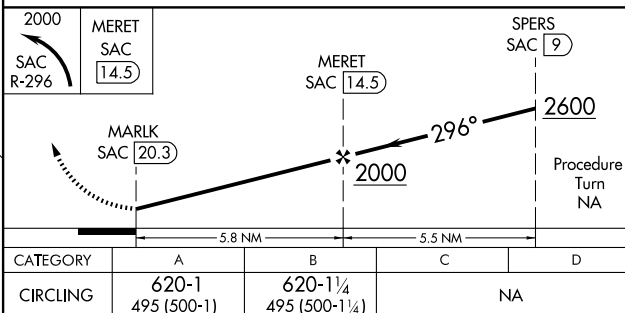
•1940



ELEV 125



Procedure NA for arrival on SAC VORTAC airway radials 257 CW 329.



MIRL Rwy 18-36